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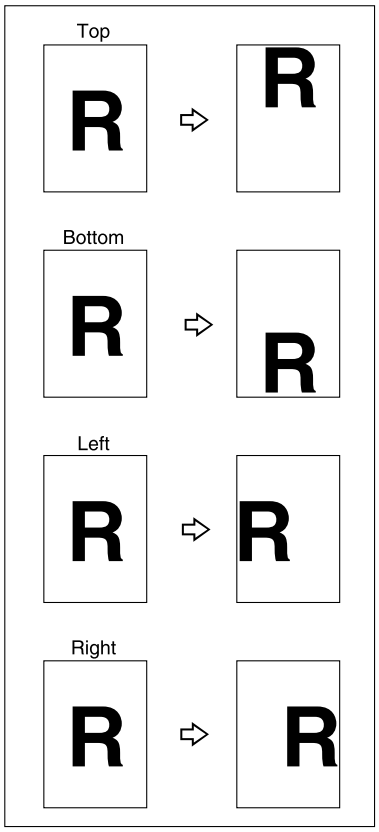
Shift

Moves (shifts) the copy image up, down, left, or right to create a margin.



Preparation

You can select the following types of margin for this function.

- **[↑]** key (Top): Shifts the image towards the leading edge of the original (top of the copy.)
- **[↓]** key (Bottom): Shifts the image towards the trailing edge of the original (bottom of the copy.)
- **[←]** key (Left): Shifts the image towards the left of the original.
- **[→]** key (Right): Shifts the image towards the right of the original.

You can shift the image from 0 to 200mm in 1mm steps (0 to 7.8" in 0.1" steps).

The default setting is 20mm, 2.0". You can change this setting. See p.133 "Shift Image Area Priority"

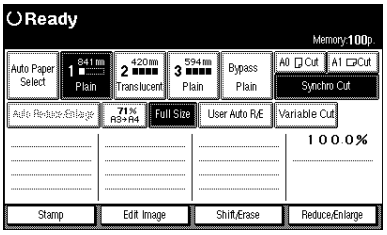
You can also shift the image in a combination of up/down and left/right.

Limitation

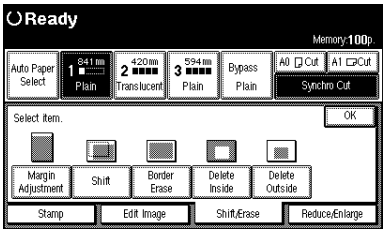
❒ When using the print and shift settings, the print position is moved in the direction of the shift setting.

❒ You can use the Shift function for copy sizes up to A0 (E).

1 **Press the [Shift/Erase] key.**



2 **Press the [Shift] key.**



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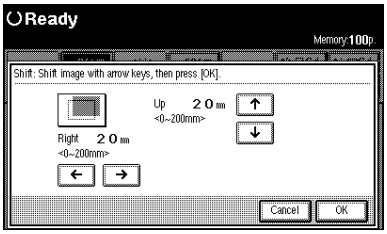
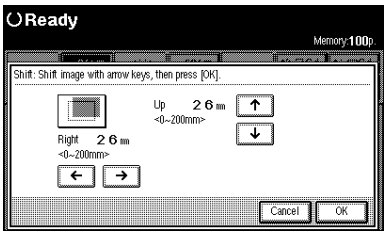
Creating a top or bottom margin

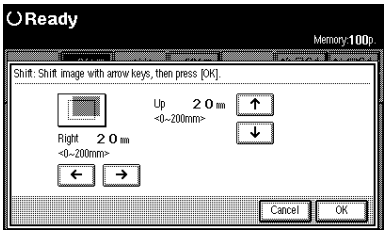
❶ **Press the [↑] or [↓] keys to set the length of the shift amount.**

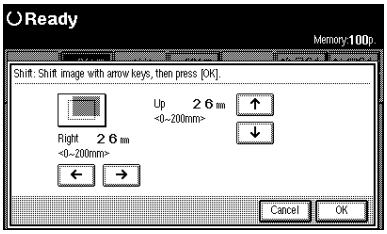




Creating a left or right margin

❶ **Press the [←] or [→] keys to set the length of the shift amount.**





❸ **Press the [OK] key.**

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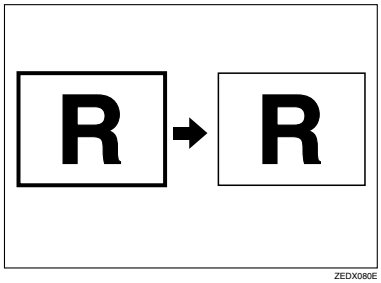
Border Erase

Erases the rim area of the original image.

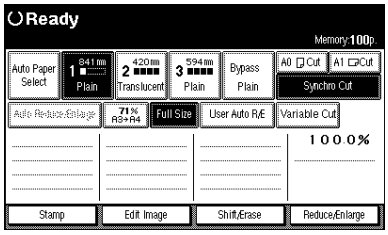


ZEDX080E

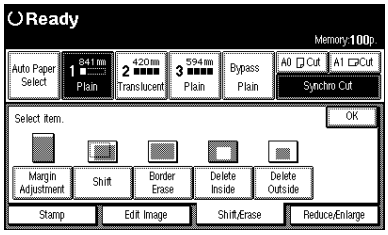
Preparation

The default border erase setting is 10mm, 0.4". You can change this setting. See p.133 "Border Erase Width Priority"

1 **Press the [Shift/Erase] key.**



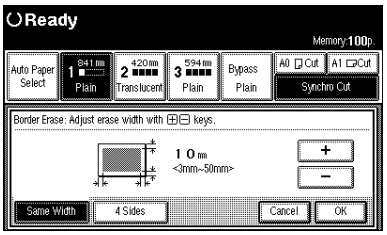
2 **Press the [Border Erase] key.**



Setting border erase to same width

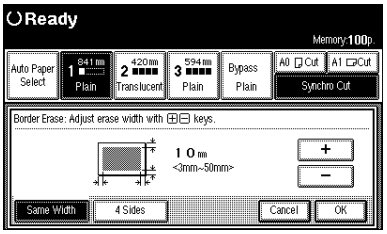
❶ **Press the [Same Width] key.**

❷ **Press the [-] or [+] keys to set the Border Erase width, and then press the [OK] key.**



Setting border erase to separate widths

❶ **Press the [4 Sides] key.**



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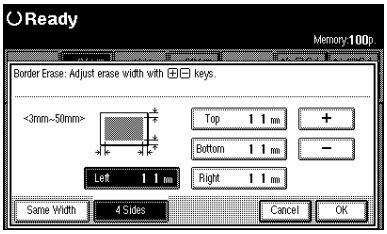
❷ **Press the [Top], [Bottom], [Left] and [Right] keys to select the erase rim area, and set the Border Erase width using the [-] or [+] keys. Then press the [OK] key.**



Limitation

❒ When using the Border Erase function with other functions, see p.102 “Chart of Scan Sizes for Each Function”.

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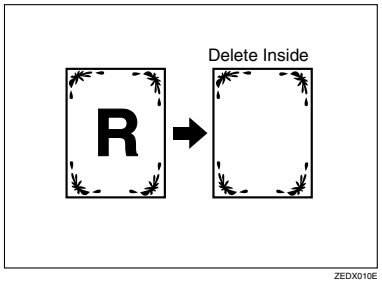
Delete Inside

Copies the original while erasing parts inside a specified area.



ZEDX010E

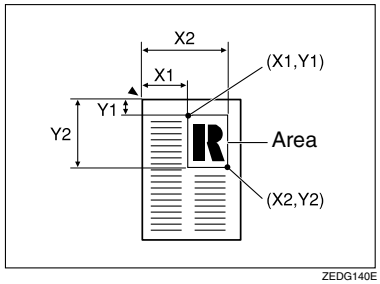
Limitation

❒ If the original is larger than A1, you can only erase one area (Metric version only).

❒ If the original is larger than C, you can only erase one area (Inch version only).

Note

❒ The area is specified by defining to two points for the top left of the original (X1, Y1) and two points for the size of the area (X2, Y2). Measure the area you want to specify before entering the area settings.

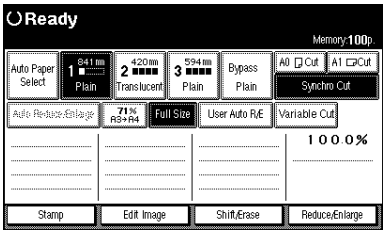


ZEDG140E

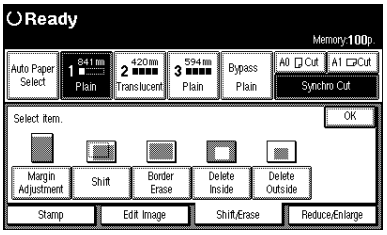
❒ When using this function with the magnification function, the actual setting will be the specified setting multiplied by the reproduction ratio.

❒ You can specify up to 5 areas.

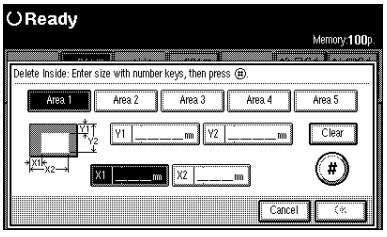
1 **Press the [Shift/Erase] key.**



2 **Press the [Delete Inside] key.**



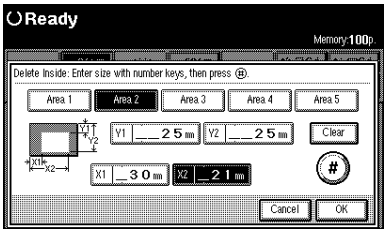
3 **Press the [Y1], [Y2], [X1] and [X2] keys to select the delete position, and enter the values to specify the area, and then press the [#] key.**



Note

❒ To change the value, press the **[Clear]** key, and then enter the new value.

4 **To specify several areas, specify areas 1 – 5 in the same way.**



5 **Press the [OK] key.**

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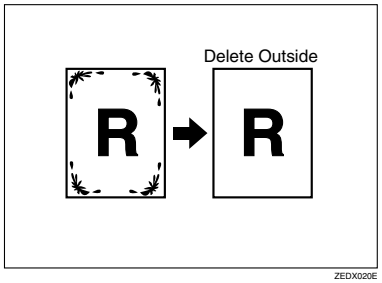
Delete Outside

Copies the original while erasing parts outside a specified area.



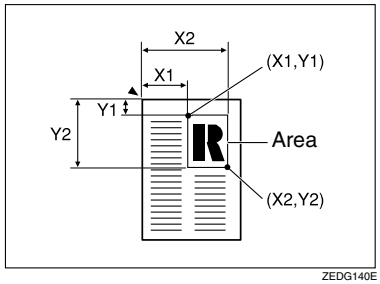
ZEDX020E

Limitation

- If the original is larger than A1, you can only specify one area (Metric version only).
- If the original is larger than C, you can only erase one area (Inch version only).

Note

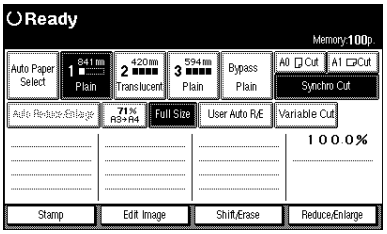
- The area is specified by defining two points for the top left of the original (X1, Y1) and two points for the size of the area (X2, Y2). Measure the area you want to specify before entering the area settings.



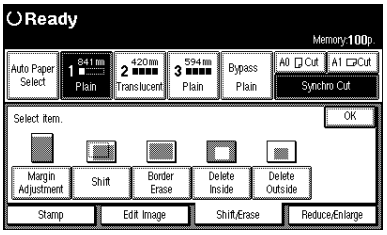
ZEDG140E

- When using this function with the magnification function, the actual setting will be the specified setting multiplied by the reproduction ratio.
- You can specify up to 5 areas.

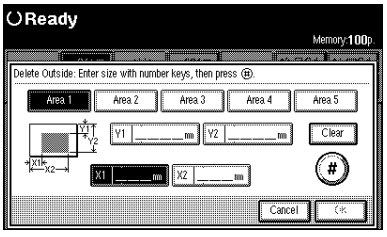
1 **Press the [Shift/Erase] key.**



2 **Press the [Delete Outside] key.**



3 **Press the [Y1], [Y2], [X1] and [X2] keys to select the delete position, and enter the values to specify the area, and then press the [#] key.**



4 **To specify several areas, specify areas 1 – 5 in the same way.**

5 **Press the [OK] key.**

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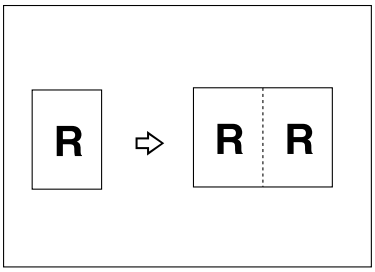
Double Copies

One original image is copied twice on to one copy as shown in the illustration.



ZEDG170E

Limitation

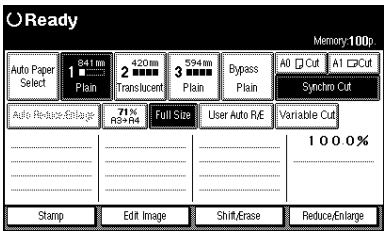
❒ You can copy an image up to A2 (C) in size with the Double Copies function . You can use a paper size up to A1 (D) .

Note

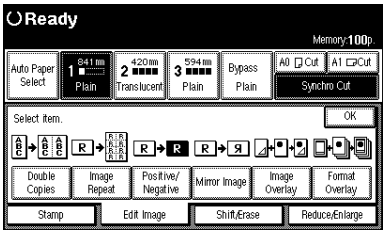
❒ You can erase the separation line between the two images. The default setting is Separation Line. See p.134 "Double Copies Separation Line"

❒ When using Double Copies, the paper size must be twice as large as the original (when **[Full Size]** is selected). When using Reduce/Enlarge, consider the magnification ratio when selecting the paper size.

1 **Press the [Edit Image] key.**



2 **Press the [Double Copies] key.**



3 **Press the [OK] key.**

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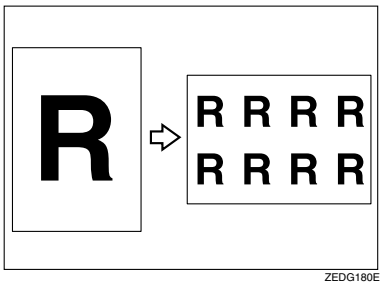
Image Repeat

The original image is copied repeatedly.



ZEDG180E

Preparation

The number of repeated images depends on the original size, copy paper size, and reproduction ratio.

- For example you can copy eight images of a A4 (A) original to A1 (D) size copy paper.

Limitation

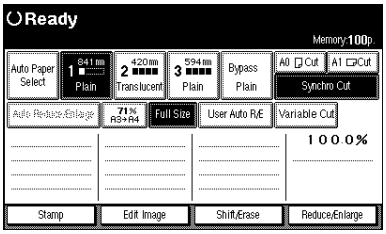
- ❒ You cannot use the bypass tray.
- ❒ Depending on the paper size and the reproduction ratio, the repeated image may be cropped.
- ❒ You can use Image Repeat for copies with sizes up to A0(E).
- ❒ When Image repeat is selected, the maximum length for Variable Cut is 1,248mm, 48".
- ❒ When you have used Image Repeat with the stamp function, you cannot delete only the repeated image when using Additional Copy.

Note

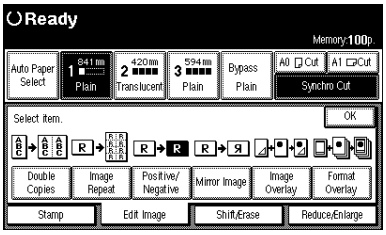
- ❒ You can insert separation lines (Solid, Broken, Crop Marks) between repeated images. The default setting is None. See p.133 “Image Repeat Separation Line”
- ❒ When using Image Repeat with the Shift function, the composite image is repeated.
- ❒ When using Image Repeat with the Image Overlay function, the composite image is repeated.

1 **Select the paper.**

2 **Press the [Edit Image] key.**



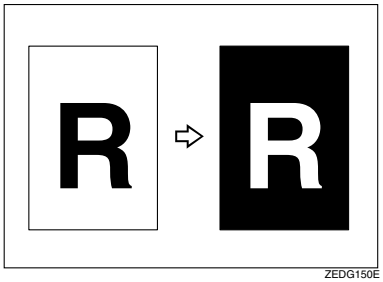
3 **Press the [Image Repeat] key.**



4 **Press the [OK] key.**

Positive/Negative

Black and white areas of the original are reversed.



ZEDG150E

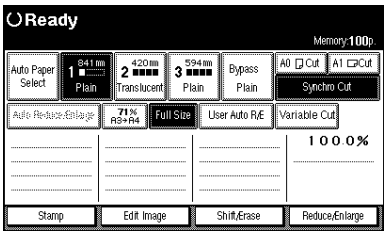
Limitation

❒ You can use Positive/Negative for copies with sizes up to A0(E).

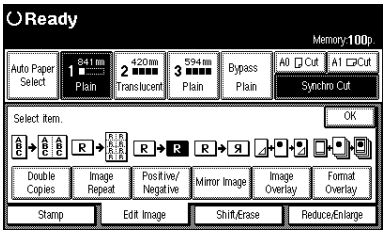
Note

❒ When making continuous copies, the image density may deteriorate. See p.106 "If You Cannot Make Clear Copies"

1 **Press the [Edit Image] key.**



2 **Press the [Positive/Negative] key.**



3 **Press the [OK] key.**

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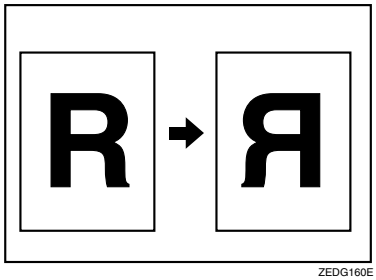
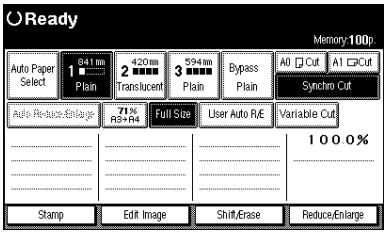
Mirror Image

The image is mirrored along the left/ right axis, so that it appears as it would when viewed in a mirror.

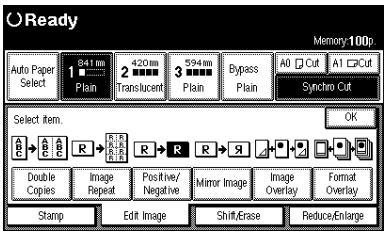


ZEDG160E

1 **Press the [Edit Image] key.**



2 **Press the [Mirror Image] key.**



3 **Press the [OK] key.**

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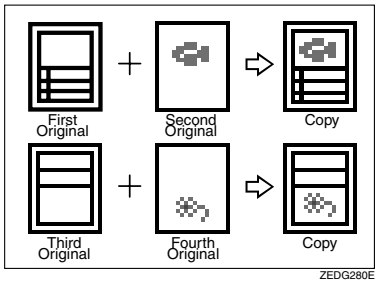
Image Overlay

Two originals are combined on one copy.



ZEDG280E

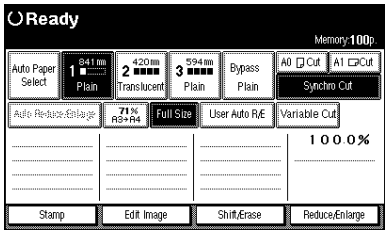
Limitation

- ❒ For details on the combinations for background original and original for the composite image, see p.83 "Image Overlay Limitations".
- ❒ You cannot shift the position of the first or second original after the composite image has been created. If you want to change the position, move one of the originals. Use the composite copy itself as an original, or insert the originals in the carrier sheet.

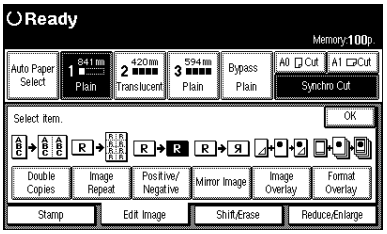
Note

- ❒ You cannot use the following functions after the originals have been scanned.
  - Copying From The Bypass Tray
  - Interrupt Copy

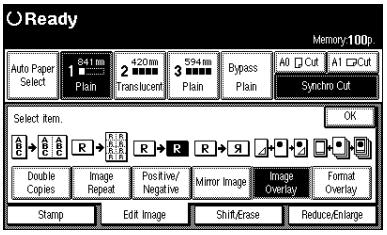
1 **Press the [Edit Image] key.**



2 **Press the [Image Overlay] key.**



3 **Press the [OK] key.**



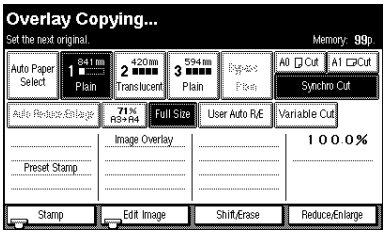
4 **Make your desired settings.**

Reference

For details, see explanations of each function.

5 **Place the first original for the composite image.**

6 **Place the next original (to be overlaid on top of the first original) for the composite image.**



The composite copy is output to the copy output tray.

You can also add a third, fourth, fifth and sixth image.

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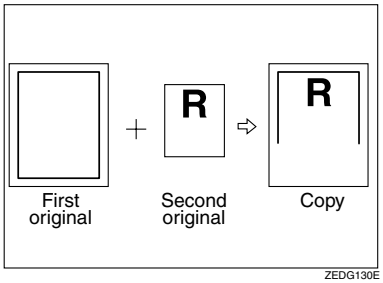
Image Overlay Limitations

Limitation

❒ When using Image Overlay, you should use a second original that is larger than the first original. Because the background image (image of the first original) will be cut if Preset Cut is selected, and if the second original is smaller than the first original.



ZEDG130E

❒ You cannot use Image Overlay with the following functions.

- Sort
- Rotate Sort
- Format Overlay

❒ If you use the Shift function with the Additional Copy function after creating an Image Overlay copy, the composite image is moved. You cannot move the individual original images.

❒ When using the following functions, the effects are applied to the composite image created with Image Overlay.

- Shift
- Margin Adjustment
- Border Erase
- Area Selection
- Mirror Image
- Double Copies
- Image Repeat

❒ The maximum size for the original and the image is A1(D).

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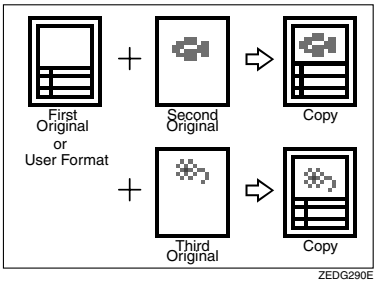
Format Overlay

The optional HDD are required to use this function.

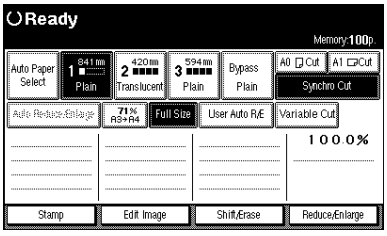
Two images (original + format) are combined on one copy using stored image (user format) or first original.

You can store the format original and recall it for next use.

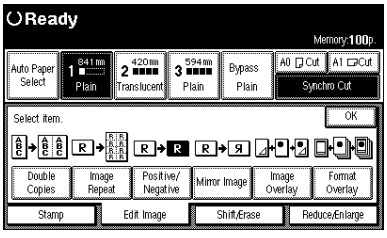


ZEDG290E

1 **Press the [Edit Image] key.**

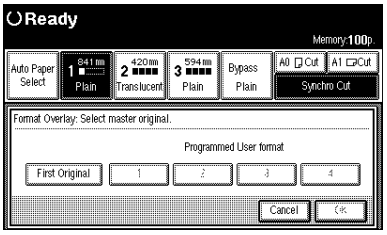


2 **Press the [Format Overlay] key.**

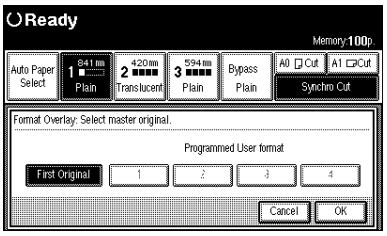


Scanning the format original (background original)

❶ **Press the [First Original] key.**



❷ **Press the [OK] key.**



❸ **Make the desired settings, and then place the first original.**

❹ **Place the second original.**

The machine makes a composite copy of the first and second originals.

❺ **Place the third original.**

The machine makes a composite copy of the first and third originals.

❻ **Place any other originals, as required.**

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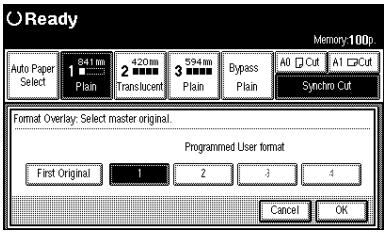
Storing a format overlay beforehand

Note

❒ To use User Format Overlay, you need to use Program /Delete, Overlay Format. See p.85 "Program/Delete, Overlay Format"

❶ **Select a stored format original.**



❷ **Press the [OK] key.**

❸ **Select the desired settings, and place the original to be overlaid on the format original.**

The machine makes a copy overlaying the first original on the user format original.

❹ **Place any other originals, as required.**

The machine makes a copy overlaying the new original on the user format original.

Limitation

❒ When selecting the **[First Original]**, if the sizes of the first original and the original to be overlaid on the first original are different, the image is created at the size of the overlaid original.

❒ When selecting the programmed user format, if the sizes of the programmed user format and the original to be overlaid on the programmed user format are different, the image is created at the size of the overlaid original.

❒ You cannot use Format Overlay with the following functions.

- Image Overlay
- Sort
- Rotate Sort

❒ The maximum size for the paper size is A1 (D).

Program/Delete, Overlay Format

Preparation

The maximum size for the original size to be stored is A0 (E). You cannot store long length originals.

1 **Make sure that the machine is ready to copy.**

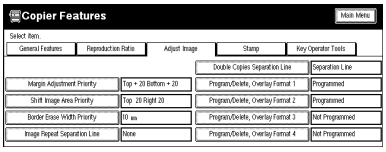
2 **Press the [User Tools/Counter] key.**

3 **Press the [Copier Features] key.**

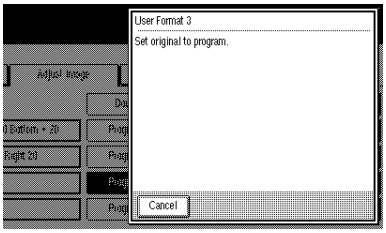
4 **Press the [Adjust Image] key, and then press the [Program/Delete, Overlay Format] key.**

Storing

❶ **Select a format number (1 – 4).**



❷ **Place your originals.**



❸ **To store another original, repeat steps ❶ – ❷.**

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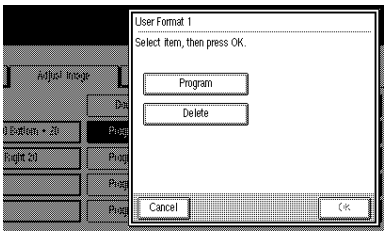
Overwriting a stored format

❶ **Select the format number for the format you want to overwrite.**

❷ **Press the [Program] key.**



❸ **Press the [OK] key.**

❹ **Press the [OK] key.**

Note

❒ If you do not want to overwrite the existing format, press the **[No]** key.

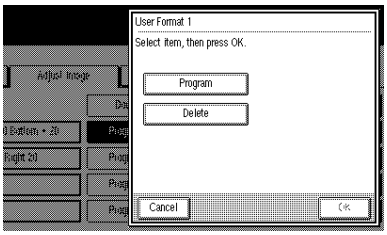
Important

❒ You cannot restore a format that has been overwritten.

❺ **Place your originals.**

Deleting

❶ **Select the format number for the format you want to delete, and then press the [Delete] key.**



❷ **Press the [OK] key.**

❸ **Press the [OK] key.**

Note

❒ To cancel the deletion, press the **[No]** key.

Important

❒ You cannot restore a format that has been deleted.

5 **Press the 【User Tools/Counter】 key.**

The machine exits Program/Delete and is ready to copy.

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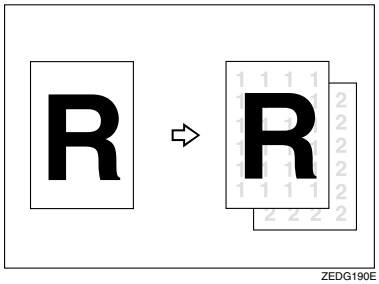
Background Numbering

The optional stamp board and HDD are required to use this function.

This function produces copies which have been stamped by the numbering user stamp.



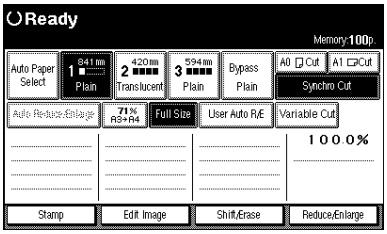
Preparation

You can set the start number from 1 to 999.

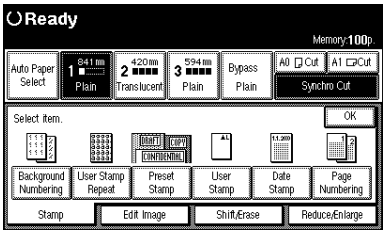
Note

- ❒ You can change the density of the background numbers. See p.137 "Background Numbering Format"
- ❒ You can change the size of the background numbers. See p.137 "Background Numbering Format"
- ❒ You can combine this function with other (up to two) print functions.

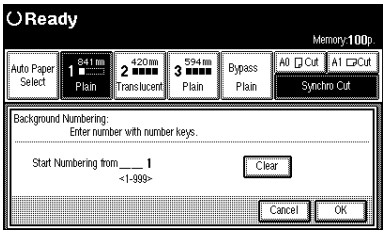
1 **Press the [Stamp] key.**



2 **Press the [Background Numbering] key.**



3 **Enter the start number with the number keys, and then press the [OK] key.**



Note

- ❒ To change the value, press the **【Clear/Stop】** key, and then enter the new value.

4 **Press the [OK] key.**

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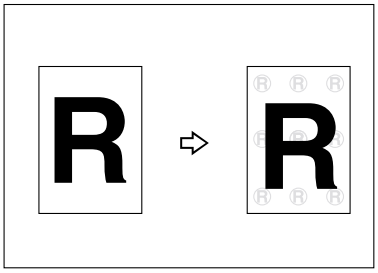
User Stamp Repeat

The optional stamp board and HDD are required to use this function.

Prints a stored user stamp of letters or symbols on the whole area of the paper.



ZEDG270E

Preparation

You must store a User Stamp before using this function. See p.92 “Program/Delete, User Stamp”

You can store up to four User Stamps.

You can choose to print the User Stamp vertically or horizontally.

You can use this function with the Background Numbering and Date Stamp (up to two types) functions.

The Size, Density, Positive/Negative settings, in "User Stamp Conditions" are also applied to the User Stamp. See p.138 “User Stamp Format”

Limitation

❒ You can use paper sizes up to A0.

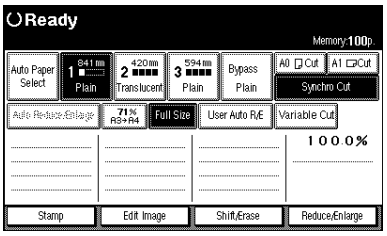
Note

❒ When the User Stamp Repeat function is selected, it may take longer for the first copy to be printed.

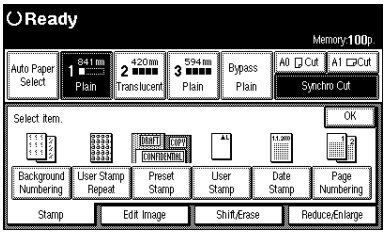
Reference

For details on deleting a User Stamp, see "Program/Delete, User Stamp". See p.92 “Program/Delete, User Stamp”

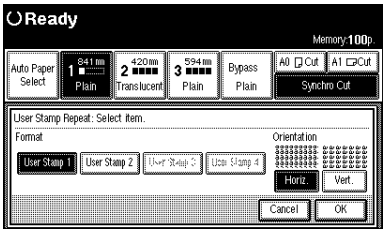
1 **Press the [Stamp] key.**



2 **Press the [User Stamp Repeat] key.**



3 **Select the user stamp item (stamp number).**



4 **Select the stamp direction ([Horiz.] or [Vert.] keys.)**

5 **Press the [OK] key.**

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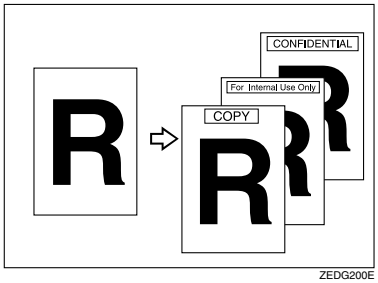
Preset Stamp

The optional stamp board and HDD are required to use this function.

Prints a user stamp that has already been stored.



ZEDG200E

Preparation

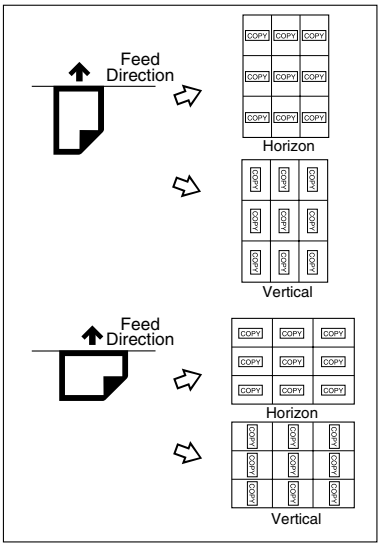
The stamp types are as follows.

COPY	URGENT
PRIORITY	For Your Info.
PRELIMINARY	For Internal Use Only
CONFIDENTIAL	

You can change the position and direction of the stamp.

You can use this function with Background Numbering and Date Stamp.

❖ Place your originals, and then specify the user stamp position and direction.



ZEDG201E

Limitation

- ❒ You cannot use the bypass tray.
- ❒ You can only use one type of stamp at a time.
- ❒ You can print on paper sizes up to A0 (E).

Note

- ❒ You can change the size, density and print position of the stamp.
- ❒ You can change the default print position for the stamp. See p.135 "Preset Stamp Format Priority"

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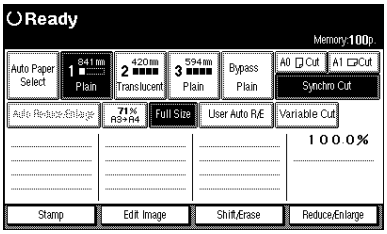
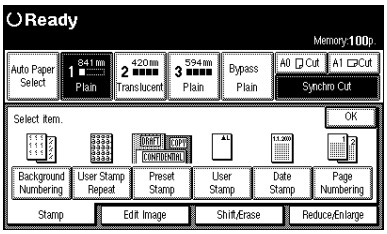
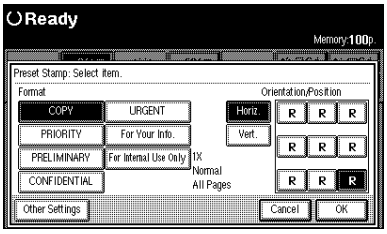
1 **Press the [Stamp] key.**



2 **Press the [Preset Stamp] key.**



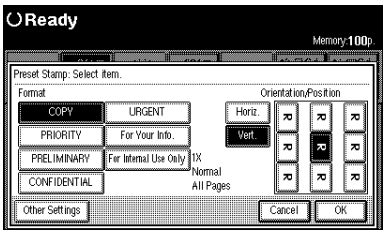
3 **Select the stamp type.**



Note

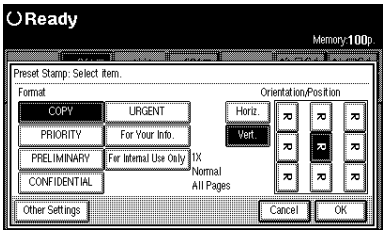
❒ You can change the priority of the selected stamp. See p.134 “Preset Stamp Priority”

4 **Select the print direction ([Horiz.] or [Vert.] keys), and print position for the stamp.**

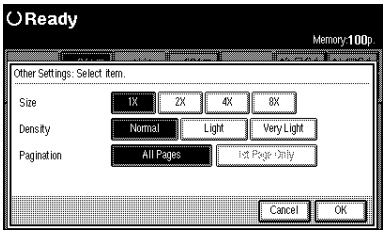


Changing the size and density/ setting print page

❶ **Press the [Other Settings] key.**



❷ **Sets the Size, Density and Pagination.**



5 **Press the [OK] key.**

Reference

For details on how to set the originals, see "Setting Originals and Print Position/Direction". See p.91 “Place the originals and then specify the stamp position and direction.”

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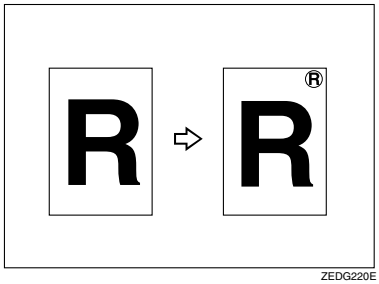
User Stamp

The optional stamp board and HDD are required to use this function.

You can store frequently used characters or symbols, and then use them as a stamp.



ZEDG220E

Preparation

You must store a user stamp. See p.92 "Program/Delete, User Stamp"

You can store up to four types of user stamps.

You can use a stored user stamp for User Stamp Repeat.

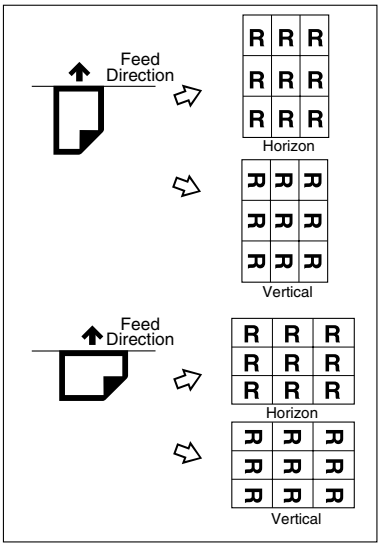
You can use this function with the Background Numbering and Date Stamp (up to two types) functions.

You can change the stamp position and direction.

Reference

For details on how to delete a stored user stamp, see p.92 "Program/Delete, User Stamp".

❖ Place the originals and then specify the stamp position and direction.



ZEDG230E

Limitation

- ❒ You cannot use the bypass tray.
- ❒ You can print on paper sizes up to A0.

Note

- ❒ You can change the default size, density and print position of the stamp. See p.138 "User Stamp Format"
- ❒ When User Stamp is selected, it may take longer for the first copy to be printed.

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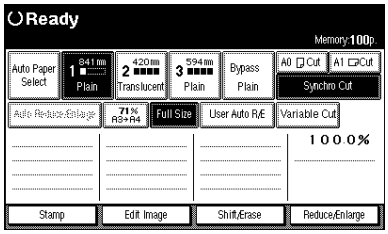
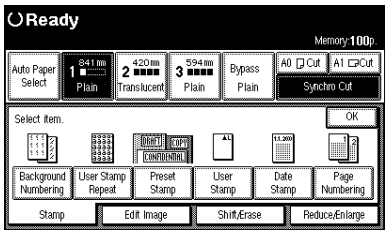
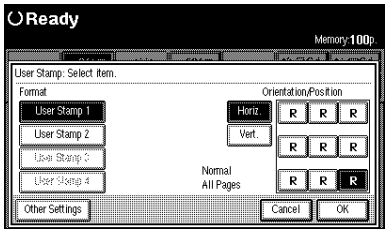
1 **Press the [Stamp] key.**



2 **Press the [User Stamp] key.**



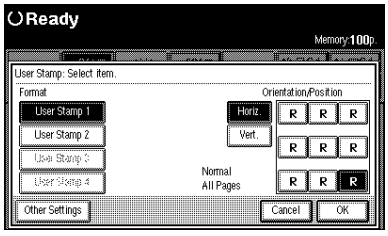
3 **Select the number for the user stamp.**



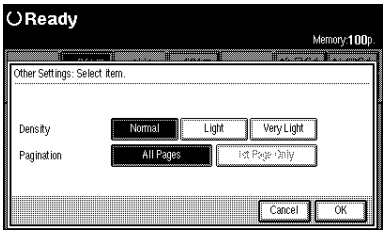
4 **Select the print direction ([Horiz.] or [Vert.] keys) and print position.**

Changing the density/setting print page

❶ **Press the [Other Settings] key.**



❷ **Set the Density and Pagination.**



5 **Press the [OK] key.**

Reference

For details on how to set the originals, see p.31 "Setting Originals".

Program/Delete, User Stamp

Preparation

If the stamp printed on the original is bright red or red, it may not be scanned clearly. To store a stamp, use either a stamp printed with black ink, or make a copy and use the copy as the original.

1 **Check that the machine is ready to copy.**

2 **Press the [User Tools/Counter] key.**

3 **Press the [Copier Features] key.**

4 **Press [Print Settings] key, and then press the [Next] key.**

"Print Settings 2/2" is displayed.

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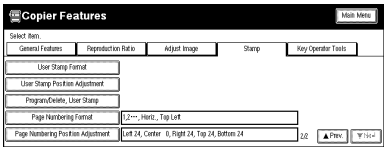
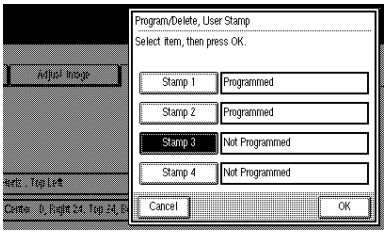
5 **Press the [Program/Delete, User Stamp] key.**

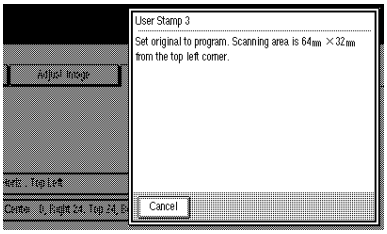


Storing

❶ **Select the number you want to use to store the stamp, and then press the [OK] key.**

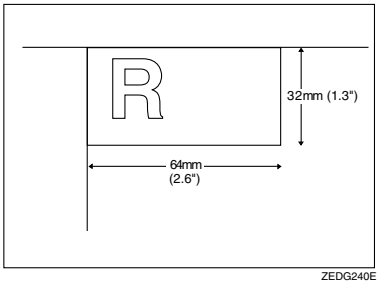


❷ **Place your originals.**



Note

❒ The area in the top right of the original of 64×32mm, 2.6"×1.3" is stored as a user stamp.

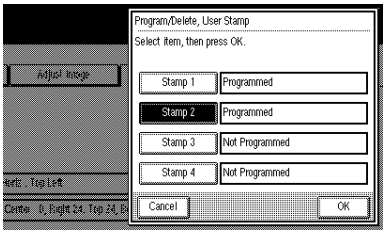


ZEDG240E

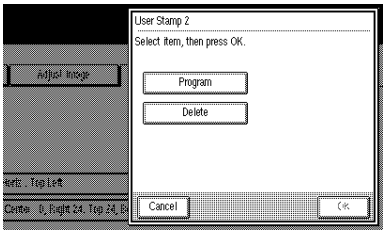
❒ You can specify the print conditions for stored stamps. See p.138 "User Stamp Format"

Overwriting a stored user stamp

❶ **Select the number for the stamp you want to overwrite, and then press the [OK] key.**



❷ **Press the [Program] key.**



❸ **Press the [OK] key.**

❹ **Press the [OK] key.**

Note

❒ If you do not want to overwrite the existing stamp, press the **[No]** key.

Important

❒ You cannot use as original stamp before overwritling.

❺ **Place your originals.**

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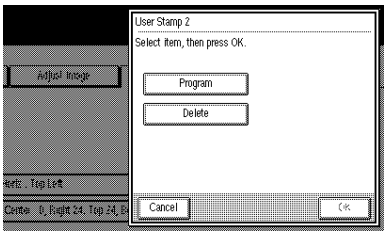
Deleting

❶ **Select the number of the stamp you want to delete, and then press the [OK] key.**

❷ **Press the [Delete] key.**



❸ **Press the [OK] key.**

"Are you sure you want to delete this programmed stamp?" is displayed on the screen.

❹ **Press the [OK] key.**

Note

❒ To cancel the deletion, press the **[No]** key.

Important

❒ You cannot use a user stamp which has been deleted.

6 **Press the 【User Tools/Counter】 key.**

After the default settings have been changed, the machine is ready to make copies.

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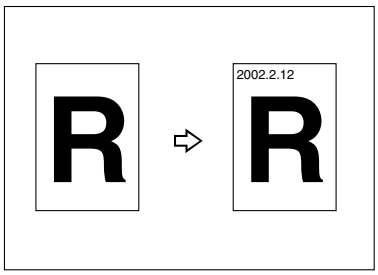
Date Stamp

The optional stamp board and HDD are required to use this function.

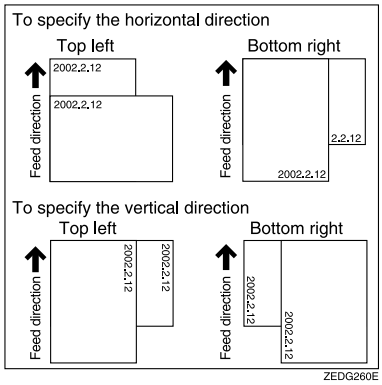


ZEDG250E

Preparation

Specify the print position (Top left/Top centre/Top right/Bottom left/Bottom centre/Bottom right) and print direction (Horizontal/Vertical).

❖ **Place your originals, and then specify the date stamp position and direction.**



ZEDG260E

Limitation

❒ You cannot use the bypass tray.

❒ You can print on paper sizes up to A0.

Note

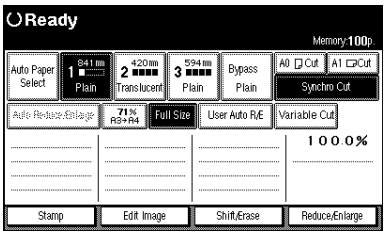
❒ You can change the date format of the date stamp. See p.136 “Date Stamp Format Priority”

❒ You can also set and change the other date stamp conditions. See p.136 “Date Stamp Format Priority”

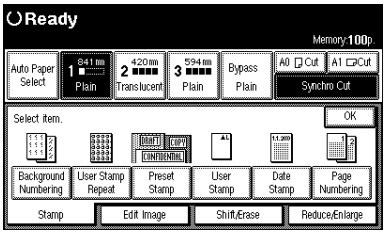
❒ You can use the date stamp with (up to two) other user stamps.

❒ The date set in "Time Settings" is used for the date stamp. See the System Settings manual.

1 **Press the [Stamp] key.**



2 **Press the [Date Stamp] key.**



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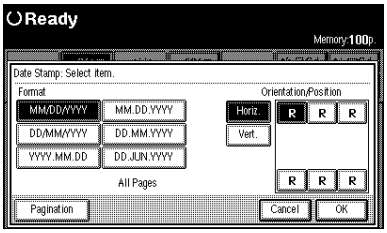
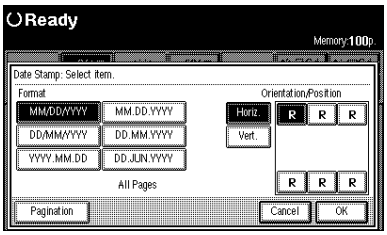
3 **Select the date format for the date stamp.**



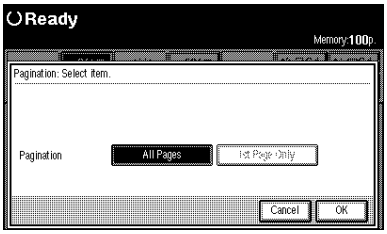
4 **Select the print direction ([Horiz.] or [Vert.] keys) and the print position.**

Selecting pagination

❶ **Press the [Pagination] key.**



❷ **Select the [All Pages] or [First Page Only] key, and then press the [OK] key.**



5 **Press the [OK] key.**

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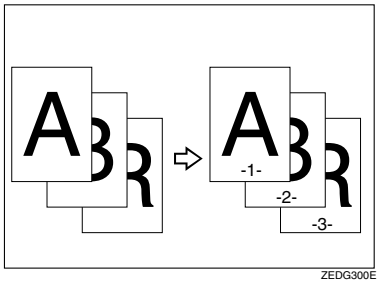
Page Numbering

The optional stamp board and HDD are required to use this function.

Use this function to print page numbers on your copies. There are five types of Page Numbering.



ZEDG300E

There are five types of Page Numbering.

- 1, 2,…
- -1-, -2-,…
- P1, P2,…
- P.1, P.2,…
- 1/5, 2/5,…

Limitation

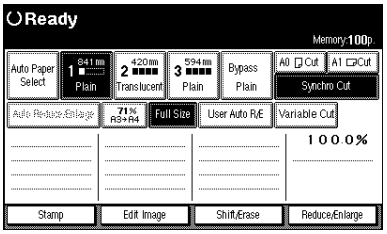
❒ When using the function with the bypass tray selected, the print position will be based on the original size multiplied by the magnification ratio.

Note

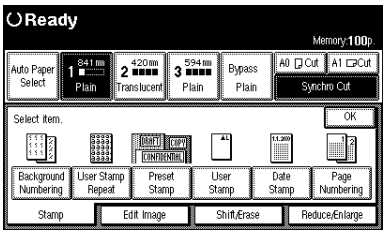
❒ You can finely adjust the default setting for the page print position. See p.140 “Page Numbering Position Adjustment”

❒ You can change the default settings for the format, print direction, and print position. See p.139 “Page Numbering Format”

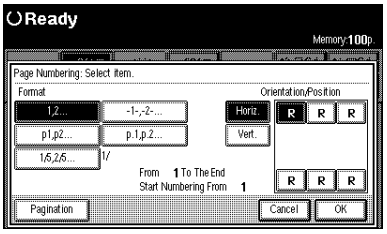
1 **Press the [Stamp] key.**



2 **Press the [Page Numbering] key.**



3 **Select the page print format.**



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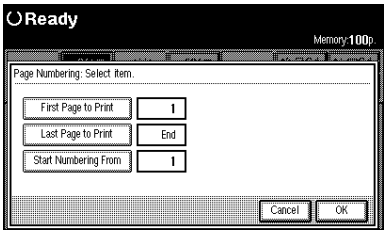
4 **Select the print direction ([Horiz.] or [Vert.] keys) and print position.**

Selecting first page to Print/Last Page to print and start numbering from

❶ **Press the [Pagination] key.**

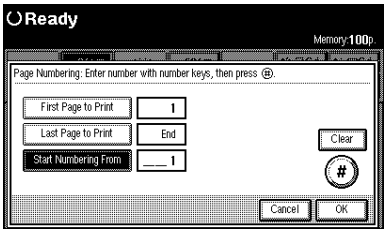
❷ **To change the first/last page, and starting page, press the corresponding key, and then enter the value with the number keys. Then press the [#] key.**



Note

❒ To change the value, press the **[Clear]** key, and then enter the new value.

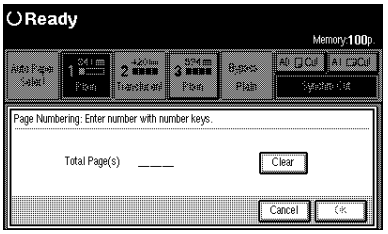
❸ **Press the [OK] key.**



If **[1/5,2/5...]** are selected

If you select **[1/5,2/5...]** the screen for setting fractions is displayed.

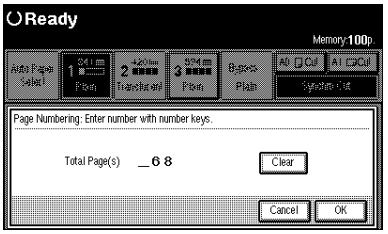
❶ **Enter the denominator with the number keys.**



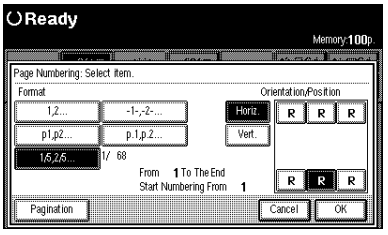
Note

❒ To change the value, press the **[Clear]** key, and then enter the new value.

❷ **Press the [OK] key.**



5 **Press the [OK] key.**



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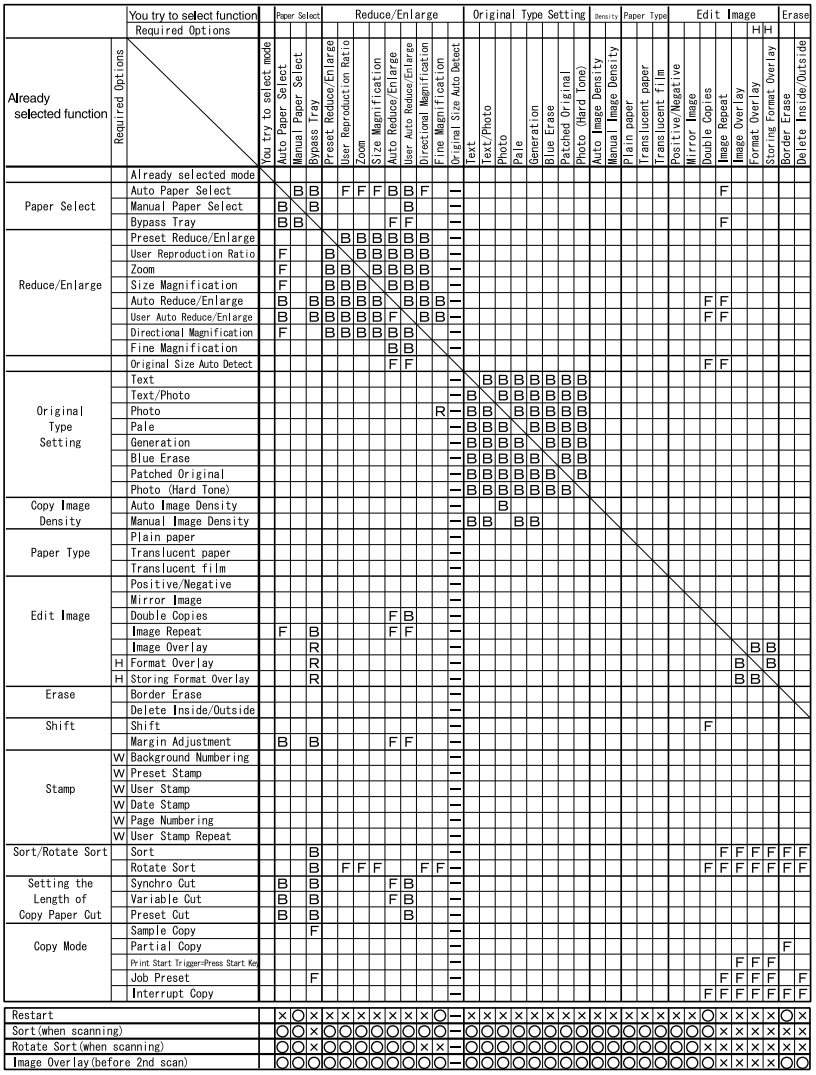
Combination Chart

The combination chart given below shows which modes can be used together.



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		You try to select function	Shift		Stamp						Sort		Paper Cut			Copy Mode				
		Required Options			W	W	W	W	W	W										
Already selected function	Required Options		You try to select mode	Shift	Margin Adjustment	Background Numbering	Preset Stamp	User Stamp	Date Stamp	Page Numbering	User Stamp Repeat	Sort	Rotate Sort	Synchro Cut	Variable Cut	Preset Cut	Sample Copy	Partial Copy	Print Start Trigger=Press Start Key	Job Preset	Interrupt Copy
		Already selected mode																		
Paper Select		Auto Paper Select			F								B	B	B			—	—	
		Manual Paper Select																—	—	
		Bypass Tray			F							F	F	B	B	B	F	—	—	R
Reduce/Enlarge		Preset Reduce/Enlarge																—	—	
		User Reproduction Ratio											F					—	—	
		Zoom											F					—	—	
		Size Magnification											F					—	—	
		Auto Reduce/Enlarge			F									B	B			—	—	
		User Auto Reduce/Enlarge			F									B	B	B		—	—	
		Directional Magnification											F					—	—	
		Fine Magnification											F					—	—	
		Original Size Auto Detect											F					—	—	
Original Type Setting		Text																—	—	
		Text/Photo																—	—	
		Photo																—	—	
		Pale																—	—	
		Generation																—	—	
		Blue Erase																—	—	
		Patched Original																—	—	
		Photo (Hard Tone)																—	—	
Copy Image Density		Auto Image Density																—	—	
		Manual Image Density																—	—	
Paper Type		Plain paper																—	—	
		Translucent paper																—	—	
		Translucent film																—	—	
Edit Image		Positive/Negative																—	—	
		Mirror Image																—	—	
		Double Copies		F	F								F					—	—	
		Image Repeat										F	F					—	—	
		Image Overlay										F	F					—	—	
	H	Format Overlay										F	F					—	—	
	H	Storing Format Overlay										F	F					—	—	
Erase		Border Erase										F	F				F	—	—	
		Delete Inside/Outside										F	F					—	—	
Shift		Shift											F					—	—	
		Margin Adjustment											F		F	F		F	—	—
Stamp	W	Background Numbering																—	—	
	W	Preset Stamp						B			F							—	—	
	W	User Stamp					B				F							—	—	
	W	Date Stamp							B									—	—	
	W	Page Numbering						B										—	—	
	W	User Stamp Repeat				B	B											—	—	
Sort/Rotate Sort		Sort											B				F	F	—	—	R
		Rotate Sort		F	F							B		B	B		F	F	—	—	R
Setting the Length of Copy Paper Cut		Synchro Cut											F		B	B			—	—	
		Variable Cut			F								F	B		B			—	—	
		Preset Cut			F									B	B				—	—	
Copy Mode		Sample Copy										F	F					B	—	—	
		Partial Copy			F							F	F				B		—	F	
		Print Start Trigger=Press Start Key										F	F							F	R
		Job Preset						F			F	F	F				F	F	—		F
		Interrupt Copy			F	F	F	F	F	F	F	F	F						—	F	

Restart	○	○	3	3	3	3	3	×	×	×	○	○	○	×	×		—	○	
Sort(when scanning)	○	×	×	×	×	×	×	×	×	○	○	○	×	×		×	×		
Rotate Sort(when scanning)		×	×	×	×	×	×	×	×	×	×	○	×	×		×	×		
Image Overlay(before 2nd scan)	○	○	×	×	×	×	×	×	×	○	○	○	×	×		×	×		

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❖ Symbols used in the chart

Blank	means that these modes can be used together.
F	means that these modes cannot be used together. The mode you select will be the mode you're working in.
B	means that these modes cannot be used together. The mode you select will be the mode you're working in.
S	means that these modes cannot be used together. A message is displayed telling you that the mode cannot be selected and the machine stops.
R	means you cannot set modes after the original has been scanned.
Numerical value	means the number of the modes that can used together.
1	means full size copying, B for preset ratio
2	only shown if the margin setting is a + setting. A - setting is impossible.
3	means that when additional copy is selected, you cannot set new settings means that the previous settings can be reset, changed, or deleted.
❍	means that these modes cannot be used together. The mode you select will be the mode you're working in.
×	means that these modes cannot be used together. The mode you select will be the mode you're working in.
Required option	
W	stamp board and optional HDD
H	optional HDD

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Chart of Scan Sizes for Each Function

The following chart shows the scan size limitations for Shift, Margin Adjustment, Edit Image, and Print functions.

Functions		Standard	Optional HDD installed
Shift		A0(E)	less than 6m (236")
Margin Adjustment		A0(E)	less than 6m
Image Overlay	Image Overlay	A1(D)	A0 (E)
	Format Overlay	—	A0 (E)
Erase	Delete Inside	A1 or smaller, 5 location. A0/D or smaller 1, location.	A1 or smaller, 5 location. A0/D or smaller 1, location.
	Delete Outside	A1 or smaller, 5 location. A0/D or smaller 1, location.	A1 or smaller, 5 location. A0/D or smaller 1, location.
	Border Erase	A0 (E)	less than 5.5m (216")
	with Delete Inside, Border Erase, and Image Overlay	A1 (D)	A0 (E)
	Delete Outside and Image Overlay Combinations	A1 (D)	A0 (E)
	with Delete Inside, Border Erase, and Format Overlay	A1 (D)	A0 (E)
	with Delete Outside and Format Overlay	A1 (D)	A0 (E)
Positive/Negative		A0 (E)	less than 6m (236")
Mirror Image		less than 6m (236")	less than 6m
Double Copies		Output: A0 (E)	less than 6m (236")
Image Repeat	with no other modes	A0 (E)	A0 (E)
	with Border Erase	A0 (E)	A0 (E)
	with Image Overlay	A1 (D)	A0 (E)
	with Format Overlay	—	A0 (E)
Stamp		—	A0

3. Troubleshooting

If Your Machine Does Not Operate As You Want

Error Messages

Machine's Condition	Problem/Cause	Action
Please Wait.	Displayed when the main power is turned on, when the paper type (plain paper/ translucent paper/film) is changed, the toner is replaced, or other situations when the machine is getting ready.	Wait for the machine to warm-up. **Note** ❒ When the message "Ready" is displayed, you can make the settings for your copies and scan your originals. After the originals have been scanned, the machine will automatically start copying after it has warmed-up. See p.130 "Feed Start Trigger"
Cannot detect original size.	Improper original is set.	Select paper roll manually, not in Auto Paper Select.
Change the orientation of the originals and try scanning it again.	In User Auto Reduce/Enlarge, the original is set to ⧉	For User Auto Reduce/Enlarge, set the original to ▯
	In User Auto Reduce/Enlarge the original is set to ▯	For User Auto Reduce/Enlarge set the original to ⧉
Memory is full.	The machine's memory is full because the number of originals scanned or for performing a function. The number of originals that can be stored in memory depends on the size of the originals and the function settings.	• When the Sort function is selected, press the **[Exit]** key to copy the scanned originals, and then copy the remaining originals. • When the Job Preset function is selected, check the number of preset jobs, and then try scanning the originals again.
	When using the Repeat Copy with the scanning A0(E) size original.	Clear the Repeat Copy function.
Original orientation: ▯	The machine is set for ▯ originals.	Change the orientation (direction) of the original. You can specify whether ▯ or ⧉ originals have priority. See "Basic Setting 1/3" in the System Settings manual.
Original orientation: ⧉	The machine is set for ⧉ originals.	

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Machine's Condition	Problem/Cause	Action
Check paper size.	The paper size is different to the size of the original.	• Set the suitable paper, or change paper roll selecting. • Reset the function settings, and then try again.
Rotate Sort mode is not available with the current settings.	The scanned original is too big to rotate.	You cannot use rotate sort with A0 (E) originals.
	A paper size suitable for rotate sort has not been selected.	Set paper with the following dimensions; A2 594 × 420mm, A3 420 × 297mm, A4 297 × 210mm. ❖ **Inch version (Engineering)** • 11" × 8 1/2" • 17" × 11" • 22" × 17" ❖ **Inch version (Architecture)** • 12" × 9" • 18" × 12" • 24" × 18"
Maximum copy quantity:	The number of copies exceeds the maximum copy quantity.	You can change the maximum copy quantity that you can make at a time. See p.128 "Maximum Copy Quantity"
Misfed original is located in this area. Open the indicated cover and remove misfed original.	The original has jammed (original misfeed). When you press the **【Scanner Stop】** key while original is being fed through the machine.	Follow the on-screen instructions to remove the jammed original. See p.116 "Clearing Misfeeds"
Misfed paper is located in these areas. Open the indicated areas and remove misfed paper.	The copy paper has jammed.	Follow the on-screen instructions to remove the jammed paper. See p.116 "Clearing Misfeeds"
Add Toner	The machine has run out of toner.	Open the toner supply cover and change the toner cartridge. See p.114 "Adding Toner"
Close the indicated covers.	The indicated cover(s) is open.	Follow the on-screen instructions to close the cover.
Used toner bottle full.	Used toner bottle full.	Call your service representative.

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Screen

Problem	Cause	Action
The screen is off.	The screen contrast knob is turned to the dark position.	Turn the screen contrast knob until you can see the screen.
	The machine is in Energy Saver mode.	Press the **【Clear Modes/Energy Saver】** key to cancel Energy Saver mode.
	The operation switch is turned off. (The Auto Off function has turned the machine off.)	Turn on the operation switch. You can change the Auto Off time. See "Auto Off Timer" of the "System Settings" manual.
Cannot select the functions on the screen.	Selected functions cannot be used together.	See p.99 “Combination Chart”.
	Function requires the stamp board or other option.	Some functions require an option.
The power does not come on.	The main power switch is turned off.	Turn on the Main power switch. See p.11 “Turning On the Main Power”

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If You Cannot Make Clear Copies

Problem	Cause	Action
Black or white streaks appear on the copy.	The image density is too dark.	Adjust the image density. See p.41 "Adjusting Copy Image Density"
	The exposure glass or feed roller is dirty.	Clean the exposure glass or feed roller. See p.147 "Maintaining Your Machine"
	The original is dusty.	Clean the original and try copying again. Be particularly careful when using the following types of original. • Hand drawn or other originals drawn with a pencil or pen, such as from a plotter. • Film, translucent paper or other originals that easily attract static electricity. • Very long originals.
A shadow of the reverse side of an original image is also copied.	The image density is too dark.	Adjust the image density setting. See p.41 "Adjusting Copy Image Density"
The background is dirty.	The image density is too dark.	Adjust the image density setting. See p.41 "Adjusting Copy Image Density"
The edges of pasted sections are shown.	The image density is too dark.	Adjust the image density setting. See p.41 "Adjusting Copy Image Density" Change the direction of the original. Put mending tape on the pasted part.
The same copy area is dirty whenever making copies.	The exposure glass or feed roller is dirty.	Clean the exposure glass or feed roller. See p.147 "Maintaining Your Machine"
Copies are too light.	The image density is too light.	Adjust the image density setting. See p.41 "Adjusting Copy Image Density"
	Damp or rough grain paper is used.	For good copy quality, use the recommended paper. **Note** ❒ If you use coating paper (such as thermal fax paper, art paper, carbon paper), dry paper, or rough grain paper, the copy image might be too light.

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Problem	Cause	Action
The toner fusing is poor.	The toner fusing temperature is too low.	Adjust the fusing setting for the paper. See "Fusing Adjustment: Paper Tray" in the System Settings manual.
	The copy paper is too thick.	
A moire pattern is produced on copies.	Your original has dot pattern image or many lines.	Change the direction of the original. This may prevent the moire pattern. Using **[Photo]** or **[Photo(Hard Tone)]**.
The image density is uneven.	The original has areas of solid color, or the Positive/Negative function is selected for Repeat Copy.	When using Repeat Copy with originals that have areas of solid color, set the number of originals as follows: A0 – A2 (E – C): 1 sheet, A3 (B) or smaller: 3 sheets
	Halftone originals can cause this problem.	Try using **[Text/Photo]** or **[Photo]**.
Images are blurred when using translucent paper.	Translucent paper is being used with Repeat Copy.	Adjust the fuser setting to match the paper type. See "Fusing Adjustment: Paper Tray" in the System Settings manual.
Wrinkles appear when using translucent paper.	The fusing temperature is too low.	Adjust the fuser setting to match the paper type. See "Fusing Adjustment: Paper Tray" in the System Settings manual.
	The paper type has just been changed from plain paper to translucent paper.	Wait about one minute.
The background for translucent paper is dirty.	More than 50 copies are being made of originals longer than 1189mm (46.9") with solid block of color (2mm × 900mm (0.08" × 35.4") or larger.)	Adjust the fuser setting to match the paper type. See "Fusing Adjustment: Paper Tray" in the System Settings manual.
Streaks, scratches, or wrinkles appear in areas of solid black color.	The paper has been changed from plain paper to translucent paper, or from translucent paper to plain paper.	After switching from plain paper→ to translucent paper wait one minute. After switching from translucent paper → to plain paper wait two minutes before making copies.
Shadows appear on the copies.	The original is a two sided original, or image density setting is too dark.	Adjust the image density setting. See p.41 “Adjusting Copy Image Density”
The copies are blurred.	Continuous copies have been made on small sized paper.	Wait about two minutes, and then try copying again.

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If You Cannot Make Copies As You Want

Problem	Cause	Action
Misfeeds occur frequently.	There are folds or wrinkles in the paper.	Remove the folds or wrinkles from the roll paper.
	Jammed paper or torn paper is inside the machine.	Remove the paper, as appropriate. See p.116 "Clearing Misfeeds"
	The paper is curled.	Smooth out the curl and try again.
Images are cropped when using the Border Erase function.	The Border Erase setting is to too big. The margin of the original is small.	Reduce the size of the Border Erase setting. See p.73 "Border Erase"
Parts of the image are not copied.	The original is not placed correctly.	Placing original correctly. See p.31 "Setting Originals"
	An improper paper roll is selected.	Select the proper paper roll. See p.16 "Copy Paper"
	Shift/Erase or Margin Adjustment mode is selected.	Cancel Shift/Erase or Margin Adjustment mode. See p.69 "Margin Adjustment", p.71 "Shift"
Copies are blank.	The original is not set correctly.	Placing the original with the surface to copied on to face up.
The copy paper shifts sideways.	The paper roll is not set correctly.	Set the paper roll correctly, making sure that it is straight and not loose. See p.112 "Loading Roll Paper"
	The original does not match size in the original table setting.	Adjust the original guides to the specified size, and then insert the original along the guides. See p.31 "Setting Originals"
	The paper is not set correctly in the bypass tray.	Make sure that the paper matches the size for the bypass tray guides. See p.46 "Copying from the Bypass Tray"
The copy has shifted in the direction of the original feed (or opposite) direction.	Shift/Erase or Margin Adjustment mode is selected.	Cancel Shift/Erase or Margin Adjustment mode. See p.69 "Margin Adjustment", p.71 "Shift"
The copy is shorter than the selected size. Or the copy is cut off before the end.		

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Problem	Cause	Action
Wrinkles appear in the copy.	The paper is damp.	Replace the paper with new paper. Cut the paper to 1000mm (40") just before copying.
	The paper is damp. See p.12 "Anti-humidity Heater Switch"	Turn on the anti-humidity heater. See p.12 "Anti-humidity Heater Switch"
The copies are slanted.	The original is not straight.	Insert the original along the original guides, so that it is straight.
The original and the copy size does not match.	The paper may have stretched because it is damp.	Adjust the Fine Magnification setting for the Additional Copy function. See p.62 "Fine Magnification" Adjust the Fine Magnification setting. See p.62 "Fine Magnification"
You cannot combine several functions.	Selected functions cannot be used together.	See p.99 "Combination Chart".

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Changing The Roll Paper Size

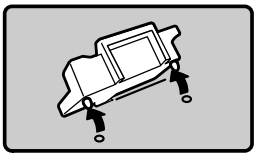
Change the size guides on the left and right of the roll paper holder when you load different sized paper rolls.

Important

❒ Always follow the instructions below when adjusting the roll paper holder. Do not force the roll paper holder by pulling or sliding it strongly. This could damage the holder.

Removing the Roll Paper Holder

1. Push the paper holder inwards, and then pull it upwards to remove it.
   <Note>
   ・The paper holder is attached with magnets and a hook.
   ・The paper holder is on the right in this illustration.



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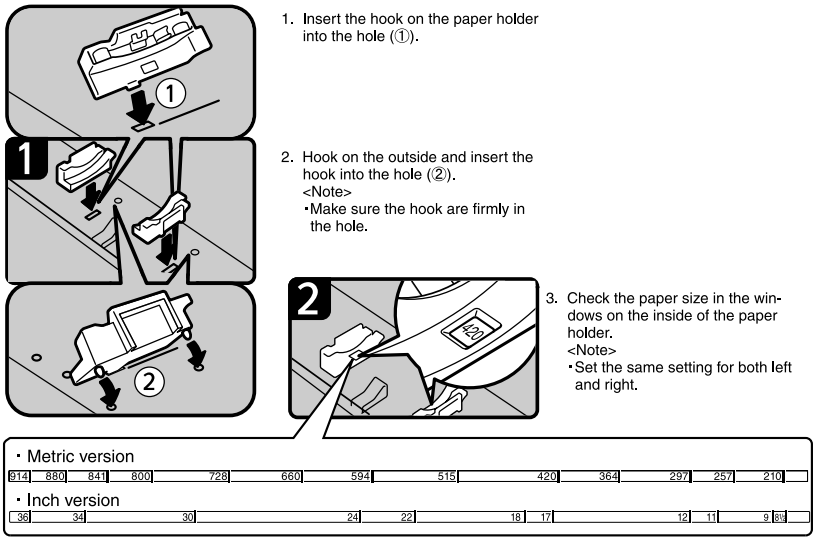
Setting the Roll Paper Holder



1. Insert the hook on the paper holder into the hole (①).
2. Hook on the outside and insert the hook into the hole (②).
   <Note>
   ・Make sure the hook are firmly in the hole.
3. Check the paper size in the windows on the inside of the paper holder.
   <Note>
   ・Set the same setting for both left and right.

Reference

Refer to the procedure for loading paper. See p.112 "Loading Roll Paper".

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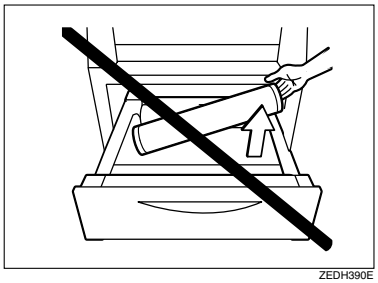
Loading Roll Paper

⚠ ***CAUTION:***

- *Be careful when replacing the roll paper or removing misfed paper by following the operating instructions properly. Otherwise, an injury may result from the paper cutter inside.*

Important

❒ When removing paper rolls, lift the roll holders on either side of paper roll before removing it. Do not lift one side only. This could damage the machine.



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Reference

For details on the paper sizes and types that can be loaded, see p.16 “Copy Paper”.

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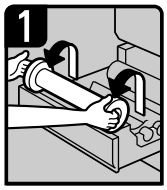
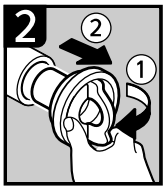
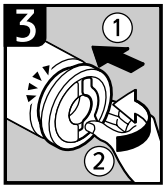


1. Hold both sides of the empty paper roll and remove it from the unit.



2. Raise the lever on the paper holder (①).
3. Remove the empty paper roll core from the paper holder (②).

<**Note**>
- Hold both sides when removing it.

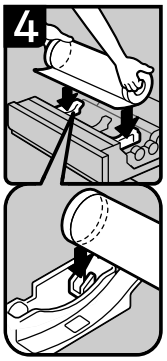


4. Set the paper holder in the new paper roll (①).

<**Note**>
- Insert the paper holder firmly, until it stops.

5. Lower the lever.

<**Note**>
- Hold both sides.



6. Hold both sides of the paper roll and set it securely in the paper holder.

<**Note**>
- The edge of the paper roll should be on the bottom.

7. Rotate the paper roll slowly until the paper edge is almost fed into the rubber part of the roller (①).

<**Note**>
- Make sure the paper is not loose.
- Make sure the paper is straight.

8. While feeding the edge of the paper roll into the rubber part of the roller, turn the paper knob clockwise (②).

<**Note**>
- Watch carefully to make sure that the edge of the paper is inserted between the feeder and the roller.

9. Press the auto feed button until the edge of the paper emerges from the cutter section (①).

<**Note**>
- The paper will be cut automatically when you release the feed button.
- Be careful not to get your fingers or cloths trapped in the roller.

10. Remove the cut piece of paper(②).
11. Close the paper tray.

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Adding Toner

⚠ ***WARNING:***

- ***Do not incinerate used toner or toner containers. Toner dust might ignite when exposed to an open flame. Dispose of used toner containers in accordance with local regulations for plastics.***

⚠ ***CAUTION:***

- *Keep toner (used or unused) and toner containers out of reach of children.*

⚠ ***CAUTION:***

- *Our products are engineered to meet high standards of quality and functionality, and we recommend that you only use the expendable supplies available at an authorized dealer.*

Important

❒ If you use toner other than the recommended type, a problem might occur.

❒ Replace the toner while the machine is turned on. If you turn the machine off, your settings will be lost and you will not be able to resume copying.

❒ Always replace toner when the message is displayed.

Note

❒ When the indicators blink, replace the toner as soon as possible.

❒ If toner runs out, the message "Out of toner." is displayed and you cannot make copies.

❒ The machine will be ready to make copies again, about two minutes after the toner is replaced.

Reference

For details on how to store toner, see p.20 "Storage".

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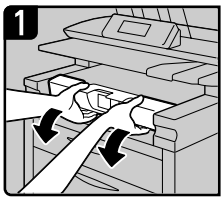
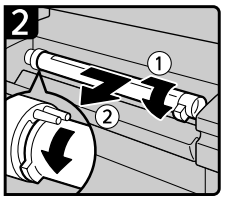
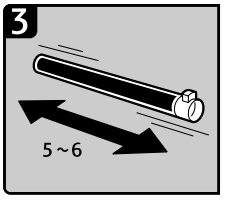


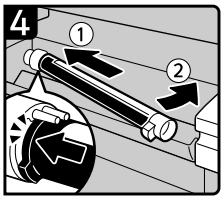
1. Open the toner supply cover.



2. While sliding the toner cartridge to the right, roll it towards you (①).
3. Pull the toner cartridge towards you, and out of the machine (②).

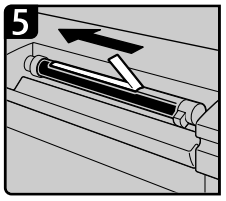


4. Remove the new toner cartridge and gently shake it five or six times.

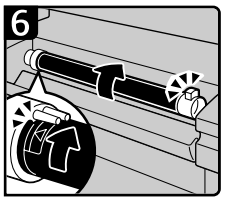


5. Insert the ends of the toner cartridge into the toner holder on the left (①).
6. Insert the toner cartridge into the right, as indicated by the arrow (②).

<**Note**>
- Remove the tape from the cartridge without rotating the cartridge as follows.



7. Slowly remove the tape from the toner cartridge.



8. Rotate the toner cartridge so the arrows are at the top and secure it firmly in place.
9. Close the toner supply cover.

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Clearing Misfeeds

Original Misfeeds

⚠ *CAUTION:*

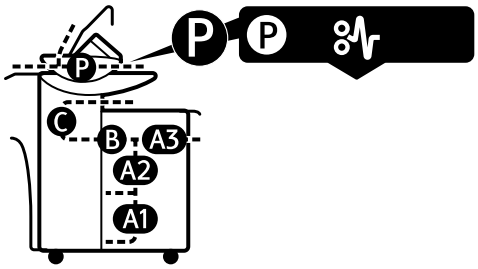
- *The fusing section of this equipment might be very hot. You should be very careful that you don't touch this section when removing the misfed paper.*

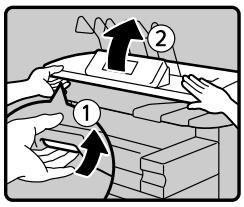
Important

- ❒ If the originals are fed at a slant or become jammed, press the 【**Scanner Stop**】 key.
- ❒ Do not turn off the operation switch when removing jammed originals. If you turn the power off, your settings will be lost.
- ❒ Completely remove the jammed original, taking care not to tear it. If scraps of paper are left in the machine, the originals will jam again or the machine may be damaged.
- ❒ If the original misfeeds again, immediately call your service representative.

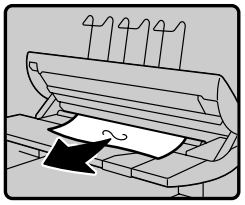
Reference

For details of the paper sizes and types that can be loaded, see p.16 “Recommended Size and Type”.

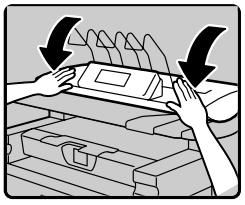




1. Lift the original cover release lever (①), and lift open the original cover (②).
<Note>
・Always hold the original cover on both sides when opening it.



2. Remove the jammed original.



3. Gently close the original cover with both hands.

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Paper Misfeeds

⚠ ***CAUTION:***

- *The fusing section of this equipment might be very hot. You should be very careful that you don't touch this section when removing the misfed paper.*

⚠ ***CAUTION:***

- *Be careful when replacing the roll paper or removing misfed paper by following the operating instructions properly. Otherwise, an injury may result from the paper cutter inside.*

Important

❒ Do not open the covers, paper path section or paper roll tray immediately after the paper misfeed display blinks or comes on. Wait 10 seconds before opening them. If you open them immediately, it will be difficult to remove paper trapped in the fusing unit.

❒ Completely remove the jammed paper, taking care not to tear it. If scraps of paper are left in the machine, the originals will jam again or the machine may be damaged.

❒ If the paper misfeeds again, immediately call your service representative.

Note

❒ Paper jam locations may be displayed in more than one place. In these cases, check all the locations indicated.

❒ Instructions for clearing paper jams in the copy output area and paper roll tray are contained in the stickers on the machine.

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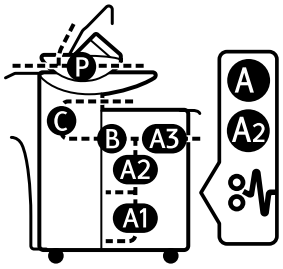
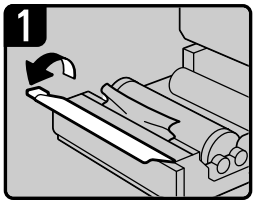
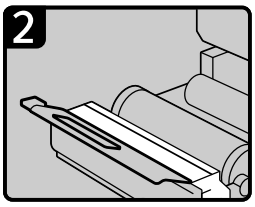
Paper roll tray (A1,A2)







1. Open the cutter blade cover.
   <Note>
   - Be careful not to touch the cutter blade with your fingers.

2. The next steps differ depending on whether you can see the edge of the paper or not.

   - When you can see the edge of the paper.
     3 ~ 5
   - When you cannot see the edge of the paper.
     6 ~ 9

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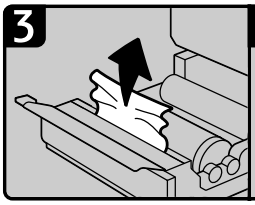
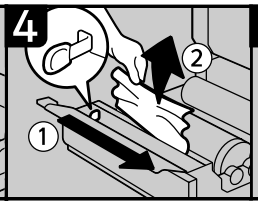
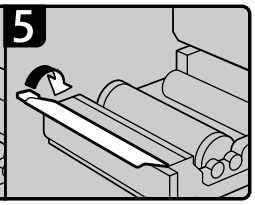
When you can see the edge of the paper







1. Slowly pull up the edge of the jammed paper.
2. Slide the cutter knob (①) to cut the edge of roll paper
3. Remove the jammed paper.
   <**Note**>
   - Return the cutter knob to either the right or left side of the cutter area.
4. Close the cutter blade cover.
   <**Note**>
   - Be careful not to touch the cutter blade with your fingers.

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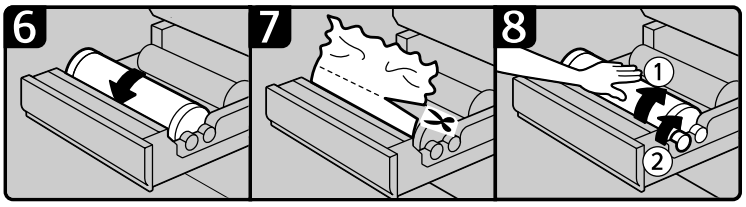
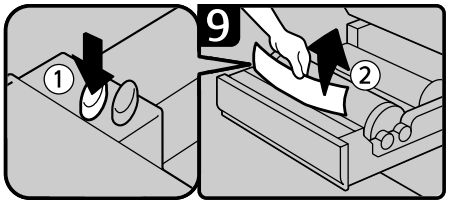
When you cannot see the edge of the paper



1. Rotate the paper roll in the direction of the arrow until you can see the edge of the paper.
2. Cut of the edge of the paper with the cutter or scissors.
3. Slowly rotate the paper roll until the edge of the paper is fed into the rubber part of the roller (①).
   <Note>
   • Making sure the paper is not loose, insert it straight into the roller.
4. While feeding the edge of the paper roll into the rubber part of the roller, turn the paper knob clockwise (②).
   <Note>
   • Watch carefully to make sure that the edge of the paper is inserted between the feeder and the roller.



5. Press the auto feed button until the edge of the paper emerges from the cutter section (①).
   <Note>
   • The paper will be cut automatically when you release the feed button.
   • Be careful not to get your fingers or cloths trapped in the roller.
6. Remove the cut piece of paper (②).
7. Close the paper tray.

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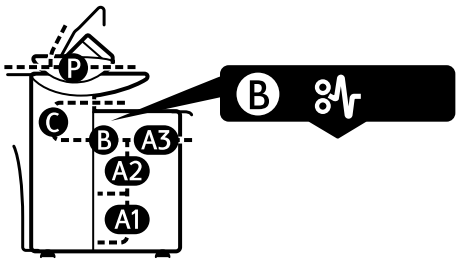
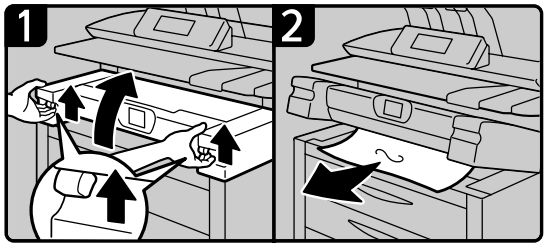
Bypass tray (A3,B)





1. Lift the lever and lift out the imaging unit.
   <**Note**>
   - Always hold the unit on both sides when opening it.
2. Remove the jammed paper.
3. Close the imaging unit.
   <**Note**>
   - Always use both hands when closing the imaging unit.

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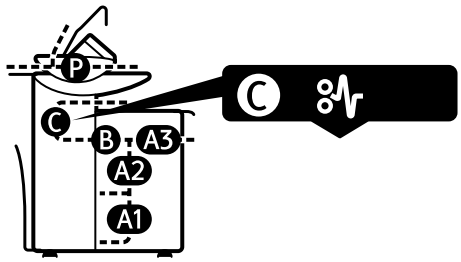
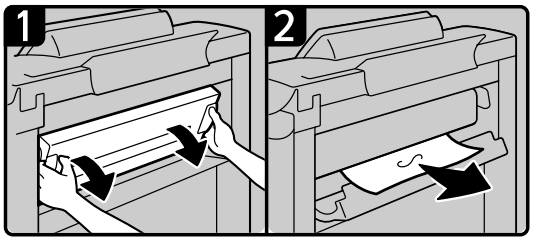
Copy output (rear) (C)

Even if C is displayed, check the front area first and clear any paper jams there. If you still cannot clear the paper jam, use the following procedure.

Important

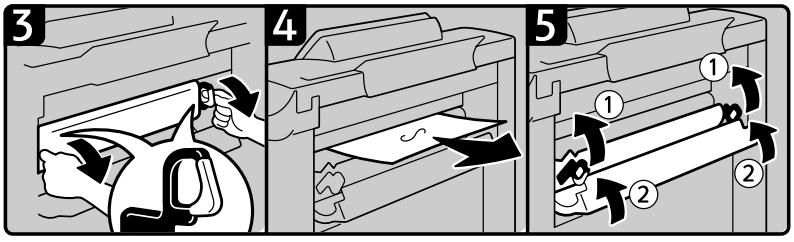
❒ When clearing the paper, be careful of the auxiliary guide and other protrusions.





1. Open the fusing unit cover at the rear with both hands.
<**Note**>
・The fusing unit is hot. Be careful not to touch it.

2. Remove the jammed paper and close the fusing unit cover.



3. Hold the knobs on either side of the fusing unit and tilt the top of the fusing unit forwards.
<**Note**>
・The fusing unit is hot. Be careful not to touch it.
・Do not place anything on the fusing unit.

4. Remove the jammed paper.

5. Close the fusing unit (①).
6. Close the fusing unit cover (②).
<**Note**>
・Push both sides of the fusing unit and push it firmly into place until both sides lock into position.

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⚠ ***CAUTION:***

- *The fusing section of this equipment might be very hot. You should be very careful that you don't touch this section when removing the misfed paper.*

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3

4. User Tools (Copier Features)

Accessing The User Tools (Copier Features)

This section is for the key operation in charge of this machine. You can change or set the machine's default settings.

Preparation

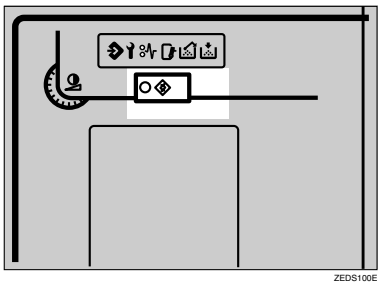
Any changes you make with the user tools remain in effect even if the main power switch or operation switch is turned off, or the 【Clear Modes/Energy Saver】 key is pressed.

Reference

For details about the System settings, see the System Settings manual.

1 **Press the 【User Tools/Counter】 key.**

The User Tools menu is displayed.



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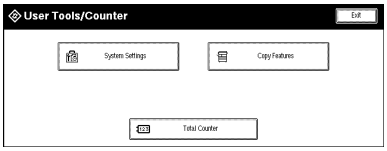
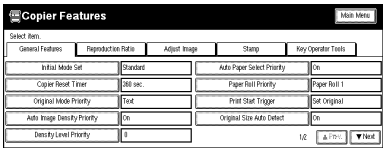
2 **Press the [Copier Features] key.**



3 **Select the desired User Tools menu.**

The relevant settings screen is displayed for the item selected.



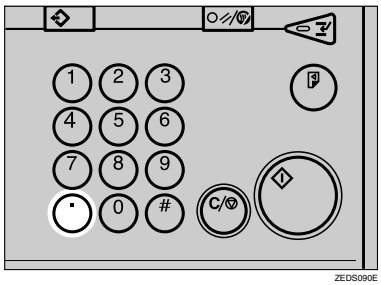
Reference

⇒ p.125 “User Tools Menu (Copier Features)”

4 **Change the settings as described in the on-screen instructions, and then press the [OK] key.**

Note

❒ Use the 【·】 key to enter a decimal point.



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❒ If you press the **[Cancel]** key, the changes to the settings are cancelled and the previous screen is displayed.

Reference

For details about how to set or change settings, see the System Settings manual. See p.126 “Settings You Can Change with the User Tools”

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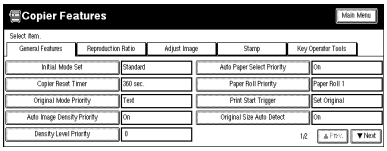
Exiting from User Tools

1 **Press the【User Tools/Counter】key.**

The machine exits User Tools mode and is ready for copying.

Note

❒ You can exit from the User Tools by pressing the **[Exit]** or the **【Clear Modes/Energy Saver】** key.



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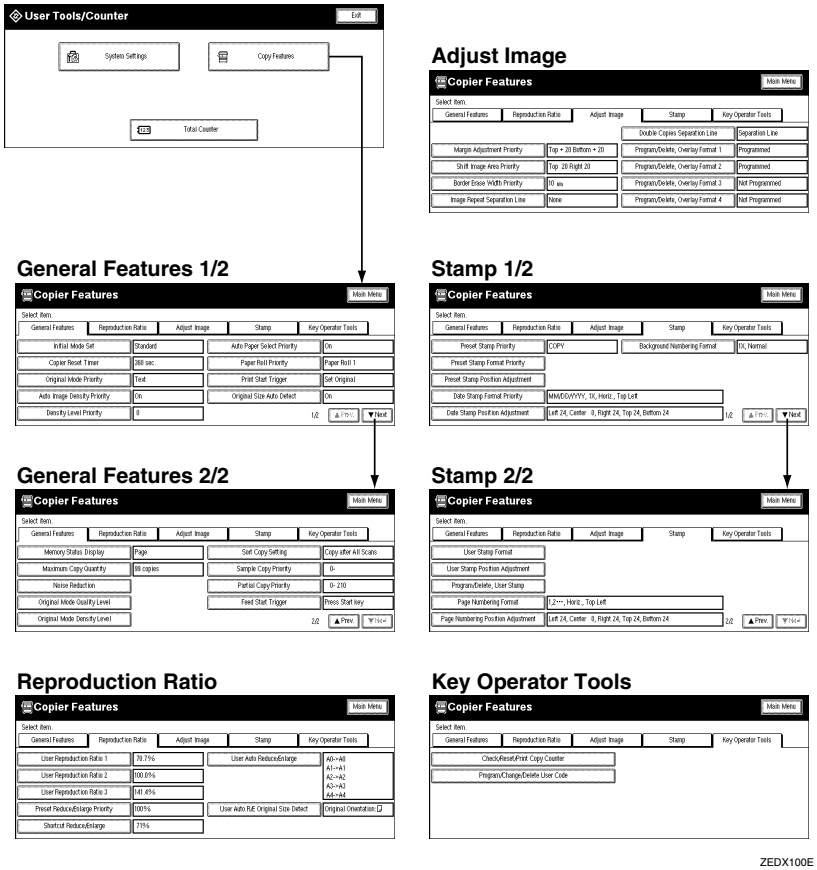
User Tools Menu (Copier Features)



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Settings You Can Change with the User Tools

For details about how to display the settings, see p.123 "Accessing The User Tools (Copier Features)"

General Features 1/2

❖ **Initial Mode Set**

Specifies the settings to appear in the Copy Initial Display screen after the machine is turned on, after Auto Reset, or after the 【**Clear Modes/Energy Saver**】key has been pressed. Or whether to use the settings stored in Program No. 20.

- Standard
- Program No.20

Note

❒ Default: *Standard*

❖ **Copier Reset Timer**

Specifies the time period for Auto Reset. See p.30 "Auto Reset"

Note

❒ Default: *60 sec.*

❒ The time can be set to 0, and from 10 to 999 seconds.

❒ If you select 0 sec., the setting is set to No Auto Reset.

❖ **Original Mode Priority**

Specifies the default original type to be used after the machine is turned on, after Auto Reset, or after the 【**Clear Modes/Energy Saver**】key has been pressed. See p.40 "Selecting Original Type Setting"

- Text
- Text/Photo
- Photo
- Pale
- Generation
- Blue Line
- Petched Original
- Photo (Hand Toner)

Note

❒ Default: *Text*

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❖ **Auto Image Density Priority**

Specifies whether Auto Image Density should be used after the machine is turned on, after Auto Reset, or after the 【**Clear Modes/Energy Saver**】 key has been pressed, or not. See p.41 "Adjusting Copy Image Density"

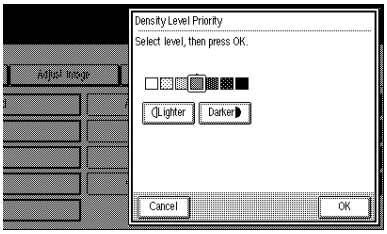
- On
- Off

Note

❒ Default: *On*

❖ **Density Priority**

Specified one of seven density levels as the image density.



Note

❒ Default: *Center*

❖ **Auto Paper Select Priority**

Specifies whether Auto Paper Select should be used after the machine is turned on, after Auto Reset, or after the 【**Clear Modes/Energy Saver**】 key has been pressed, or not. See p.42 "Selecting Copy Paper"

- On
- Off

Note

❒ Default: *On*

❖ **Paper Roll Priority**

Specifies the default paper roll to be used after the machine is turned on, after Auto Reset, or after the 【**Clear Modes/Energy Saver**】 key has been pressed.

- Paper Roll 1
- Paper Roll 2
- Paper Roll 3 (option)

Note

❒ Default: *Paper Roll 1*

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❖ **Print Start Trigger**

Specifies whether all the originals should be scanned first, or not.
To scan the originals first and then copy when the **【Start】** key is pressed, press the **[Press Start Key]** key, To start copying automatically after the originals have been scanned, press the **[Set Original]** key.

- Press Start Key
- Set Original

Note

❒ Default: *Set Original*

❖ **Original Size Auto Detect**

Specifies whether to detect the size of the original or not.
If On is selected, the machine automatically detects the size of the original. If Off is selected, the machine ignores the original size and assumes it is the largest size original. For example, to copy a an original 841mm wide, or JIS B series size or other custom size original, set this setting to Off to scan the original at the maximum width of 914mm. (In this case, be sure to select a paper size larger than the original when making the copy. (When enlarging, be sure to select a size larger than the original size × reproduction ratio.))

- Off
- On

Note

❒ Default: *On*

❒ When using 30" width original, set this setting to Off.

General Features 2/2

❖ **Memory Status Display**

Specifies how the amount of remaining memory should be displayed. If you select **[Page]**, it is displayed as a number of A1(D) pages.

- Percentage
- Page

Note

❒ Default: *Page*

❖ **Maximum Copy Quantity**

Specifies the maximum number of copies that can be made with the Repeat Copy function. See p.34 “Repeat Copy”

Note

❒ Default: *99 copies*

❒ The value can be set from 0 to 99 copies.

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❖ **Noise Reduction**

Specifies the noise (small specks of dirt or dust on the image) reduction level for each of the original types (Text, Text/Photo, Pale, Special Original.)
If you select **[Off]**, small scratches and specks on the original will not be removed.

- Off
- Low
- Medium
- High

Note

❒ Default: *Off*

❖ **Original Mode Quality Level**

Adjusts the finish for each original type.

- Normal
- Special

Note

❒ Default: *Normal*

❒ When select **[Special]**: Your service representative will set this to a value that matches your requirements. For details consult your service representative.

❖ **Original Mode Density Level**

Specifies the copy image density for each original type.

- Lighter
- Normal
- Darker

Note

❒ Default: *Normal*

❖ **Sort Copy Setting**

Specifies whether all the originals should be scanned before starting copying, when using the Sort function. Or whether copying should start while originals are still being scanned. See p.51 “Sort/Rotate Sort”
If "Rear" is selected for the copy output when using the Sort function, even if **[Copy after Each Scan]** is selected, copying starts after all the originals have been scanned.

- Copy after All Scans
- Copy after Each Scan

Note

❒ Default: *Copy after All Scans*

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❖ Sample Copy Priority

Specifies the default dimensions to be used for the Sample Copy function. See p.57 "Sample Copy"

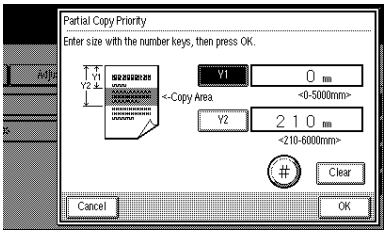
Note

❒ Default: *0*

❒ The value can be set from 0 to 250 mm (9").

❖ Partial Copy Priority

Specifies the default dimensions to be used for the start point (Y1) and end point (Y2) in the Partial Copy function. See p.58 "Partial Copy"



Note

❒ Default:

- Y1: 0 (0.0")
- Y2: 210 mm (8.3")

❒ Y1 can be set from 0 to 5000 mm (0" to 197.0").

❒ Y2 can be set from 210 to 6000 mm (8.3" to 236.0").

❖ Feed Start Trigger

Specifies how copying starts.
If you select **[Set Original]**, copy starts automatically, if you select **[Press Start Key]** then copying starts after you press the **【Start】** key.

- Set Original
- Press Start Key

Note

❒ Default: *Set Original*

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Reproduction Ratio

❖ User Reproduction Ratio

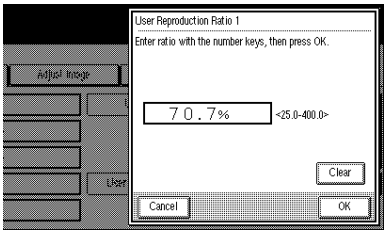
You can store up to three reproduction ratios, in addition to those in the Preset Ratio function.
Enter the desired reproduction ratio with the number keys.

Note

❒ Default: *100 %*

❒ Use the [.] key to enter a decimal point.

- 25.0% – 400.0%



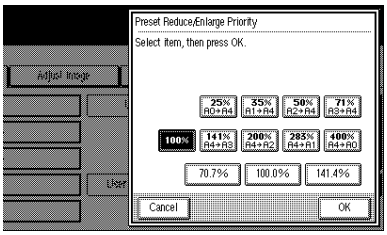
❖ Preset Reduce/Enlarge Priority

When **[Reduce/Enlarge]** key is pressed, the selected reproduction ratio is used as the priority ratio.
The selected user reproduction ratio will also have priority when the **[Reduce/Enlarge]** key is pressed.

Note

❒ Default:

- Metric version: 71%
- Inch version (Engineering): 65%
- Inch version (Architecture): 67%



❖ Shortcut Reduce/Enlarge

You can specify a frequently used reproduction ratio to appear on the basic screen.

Note

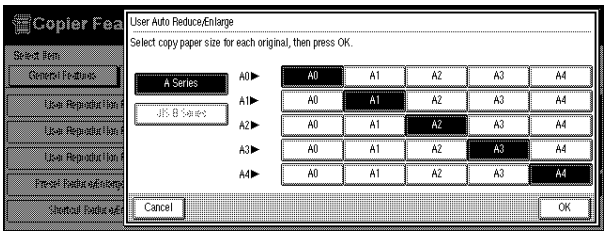
❒ Default:

- Metric version: 71%
- Inch version (Engineering): 65%
- Inch version (Architecture): 67%

❖ User Auto Reduce/Enlarge

Specifies the original and copy sizes to be displayed when the **[User Auto R/E]** key is pressed. See p.45 "User Auto Reduce/Enlarge"

Select the copy size to use with the original size.



Note

❒ If you have selected a setting for A0(E) size paper in Auto Reduce/Enlarge, you cannot select "Original orientation↔". When you cannot select "Original orientation↔" (grayed out), select the original size and copy size for Horizontal in this setting.

❖ User Auto R/E Original Size Detect

Specifies whether an original should be processed as a vertical or horizontal original when **[User Auto R/E]** is selected. See p.45 "User Auto Reduce/Enlarge"

- Original Orientation: ↕
- Original Orientation: ↔

Note

❒ Default: *Original Orientation* ↕

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Adjust Image

❖ **Margin Adjustment Priority**

Specifies the default setting for the size of the margin.
You can set the size for the top and bottom margin. See p.69 "Margin Adjustment"

Note

❒ Default:

- Metric version: 20 mm
- Inch version: 0.8"

❖ **Shift Image Area Priority**

Specifies the default setting for the Shift function. Use the arrow keys to set the shift direction and distance. See p.71 "Shift"

Note

❒ Default:

- Metric version: 20 mm
- Inch version: 0.8"

❖ **Border Erase Width Priority**

Specifies the default setting for the Border Erase function. See p.73 "Border Erase"
Use the **[+]** or **[-]** keys to make the setting.

Note

❒ Default:

- Metric version: 10 mm
- Inch version: 0.4"

❖ **Image Repeat Separation Line**

Specifies the type of line to use for the separation line. See p.79 "Image Repeat"

- None
- Solid
- Broken A
- Broken B
- Crop Marks

Note

❒ Default: *None*

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❖ **Double Copies Separation Line**

Specifies whether to use a separation line, or not, for the Double Copies function. See p.78 "Double Copies"
The separation line will be a dotted line.

- None
- Separation Line

Note

❒ Default: *Separation Line*

❖ **Program/Delete, Overlay Format**

Stores a format image (background image) for use with the Format Overlay function.
You can store up to four formats.
See p.84 "Format Overlay", p.85 "Program/Delete, Overlay Format"

Stamp 1/2

❖ **Preset Stamp Priority**

Specifies the default user stamp to be selected for the Preset Stamp function. See p.89 "Preset Stamp"

- COPY
- URGENT
- PRIORITY
- For Your Info
- PRELIMINARY
- For Internal Use Only
- CONFIDENTIAL

Note

❒ Default: *COPY*

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❖ Preset Stamp Format Priority

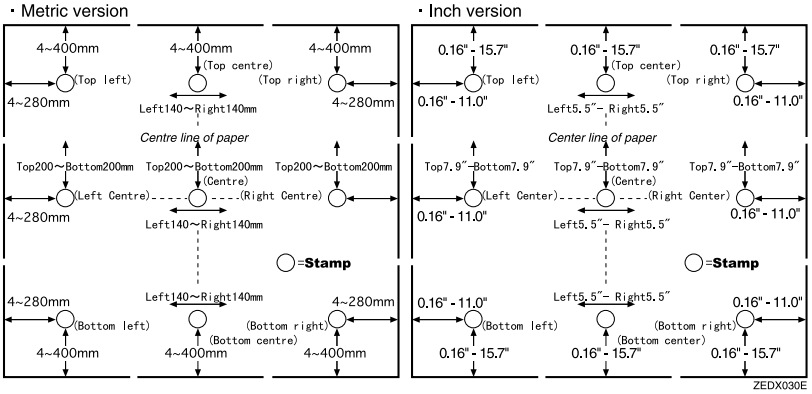
Specifies the size, density, print direction and print position for each of the preset stamps (COPY, URGENT, PRIORITY, For Your Info., PRELIMINARY, For Internal Use Only, CONFIDENTIAL). You can make separate settings for both horizontal and vertical. See p.89 "Preset Stamp"

- Size (1X, 2X, 4X, 8X)
- Density (Normal, Light, Very Light)
- Orientation (Horiz., Vert.)
- Position

Note

❒ Default:

- Size: 1X
- Density: Normal
- Orientation: Horiz.
- Position: Bottom Right



❖ Preset Stamp Position Adjustment

Specifies the print position on the copies for each of the preset stamps.
Enter the settings for stamp position with the **[+][-]** keys or the number keys.

Note

❒ Default:

- **[From Left][From Right][From Top][From Bottom]**:
  - Metric version: 24 mm
  - Inch version: 0.9"
- **[From Horiz. Center]**:
  - Metric version: 0 mm
  - Inch version: 0.0"

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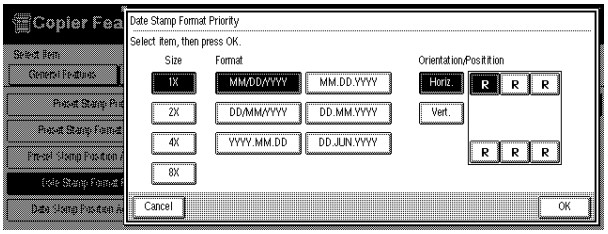
❖ Date Stamp Format Priority

Specifies the format and other conditions to be used for the Date Stamp function. See p.95 "Date Stamp"

You can specify the format to be used for the date stamp and its orientation and position.

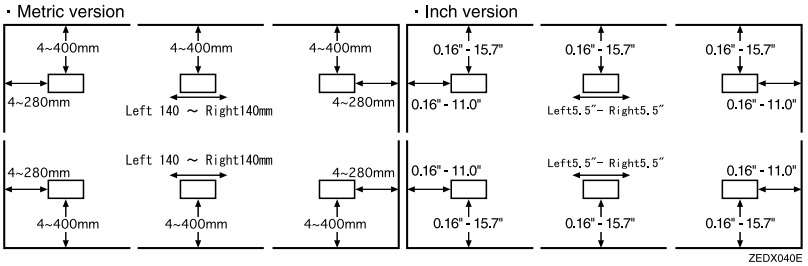
- Date format
  - MM/DD/YYYY
  - DD/MM/YYYY
  - YYYY.MM.DD
  - MM.DD.YYYY
  - DD.MM.YYYY
  - DD.JUN.YYYY
- Orientation
- Position



Note

❒ Default:

- Date Format: *MM/DD/YYYY*
- Orientation: *Horiz.*
- Position: *Top Left*



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❖ Date Stamp Position Adjustment

Specifies the print position on the copies for the date stamp.
Enter the settings for stamp position with the **[+][-]** keys or the number keys.

Note

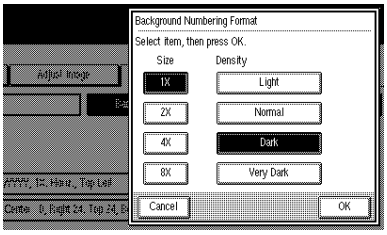
❒ Default:

- **[From Left][From Right][From Top][From Bottom]**:
  - Metric version: 24 mm
  - Inch version: 0.9"
- **[From Horiz. Center]**:
  - Metric version: 0 mm
  - Inch version: 0.0"

❖ Background Numbering Format

Specifies the format and other conditions to be used for the Background Numbering function. See p.87 "Background Numbering"
You can specify the print size and density.

- Size (1X, 2X, 4X, 8X)
- Density (Light, Normal, Dark, Very Dark)



Note

❒ Default:

- Size: 1X
- Density: Normal

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Stamp 2/2

❖ User Stamp Format

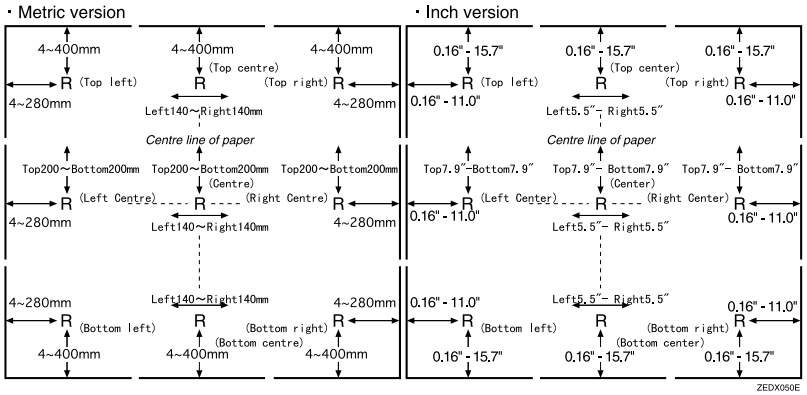
Specifies the density, print direction and print size to be used for user stamps. You can set separate settings for horizontal and vertical. See p.91 "User Stamp"

- Density (Normal, Light, Very Light)
- Orientation (Horiz, Vert)
- Position

Note

❒ Default:

- Density: Normal
- Position: Horiz
- Position: Bottom Right



❖ User Stamp Position Adjustment

Specifies the print position on the copies for user stamps.
Enter the settings for stamp position with the **[+][-]** keys or the number keys.

Note

❒ Default:

- **[From Left][From Right][From Top][From Bottom]**:
  - Metric version: 24 mm
  - Inch version: 0.9"
- **[From Horiz. Center]**:
  - Metric version: 0 mm
  - Inch version: 0.0"

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❖ Program/Delete, User Stamp

You can store, change, or delete a design of your choice as a user stamp. You can store up to four user stamps.
See p.91 “User Stamp”, p.92 “Program/Delete, User Stamp”

❖ Page Numbering Format

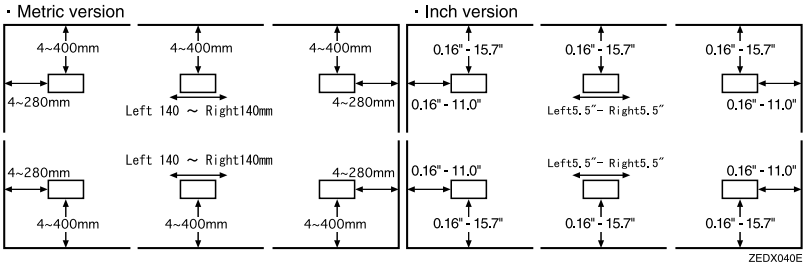
Specifies the conditions to be used for the Page Numbering function. See p.97 “Page Numbering”
You can specify the format to be used for the page number and its orientation and position.

- Format
  - 1, 2...
  - p1, p2...
  - 1/5, 2/5...
  - -1-, -2-...
  - p.1, p.2...
- Orientation (Horiz, Vert)
- Position

Note

❒ Default:

- Format: 1,2,3……
- Orientation: *Horiz*
- Position: *Top Left*



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❖ **Page Numbering Position Adjustment**

Specifies the print position on the copies for the page number.
Enter the settings for numbering position with the **[+][-]** keys or the number keys.

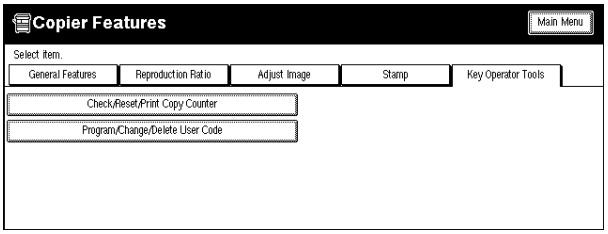
Note

❒ Default:

- **[From Left][From Right][From Top][From Bottom]**:
  - Metric version: 24 mm
  - Inch version: 0.9"
- **[From Horiz. Center]**
  - Metric version: 0 mm
  - Inch version: 0.0"

Key Operator Tools

When a key operator code has already been entered, you cannot begin manager setting unless you enter the key operator code(up to 8 digit).



❖ **Check/Reset/Print, Copy Counter**

You can check or print the number of copies made under each user code. You can also reset each user code's counter to 0.

Note

❒ Print Counter List

- Press the **[Print Counter List]** key.

❒ Reset Counter.

- Press the **[Reset Counter]** key.

❒ Reset All Counters

- Press the **[Reset All Counters]** key.

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❖ Program/Change/Delete, User Code

You can register, change, or delete user codes (8 digits or less).
You can store up to 100 user codes.

Note

❒ Program

- You can register user codes.
  Press the **[Program]** key, and then enter the user code with the number keys.

❒ Change

- You can change user codes.
  Press the **[Change]** key after selecting the user code.

❒ Delete User Code

- You can delete user codes.
  Press the **[Delete User Code]** key after selecting the user code you want to delete.

❒ Delete All User Codes

- You can delete all user codes.
  Press the **[Delete All User Codes]** key.

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4

5. Remarks

Do's and Don'ts

⚠ ***CAUTION:***

- *Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.*

Important

❒ Only disconnect the power cord after checking that all copies are finished.

- Do not touch areas on or around the fusing unit. These areas get hot.
- After making copies continuously, the exposure glass may feel warm to the touch. This is not a malfunction.
- Make sure the machine is well ventilated when in use. If the machine is operated for a long time in a poorly ventilated location, it may begin to smell. We recommend that you use the machine in a well ventilated room to ensure you maintain the operating conditions.
- You might feel warm around the ventilation hole. This is caused by exhaust air, and not a malfunction.
- Do not turn off the operation switch while copying or printing. When turning off the operation switch, make sure that copying or printing is completed.
- Do not open the covers of machine while copying or printing. If you do, misfeeds might occur.
- Do not drop staples, paper clips, or other object in to the machine.
- Do not stand or sit on the machine.
- Do not leave the paper path section open for more than 10 minutes.
- Do not touch the photosensitive conductor. If you touch it by accident, wipe it gently with a soft cloth.
- If you will not be using the machine for a long time, remove the paper from the paper roll tray and place it in its storage bag.
- The machine might fail to produce good copy images if there should occur condensation inside caused by temperature change. To prevent such trouble, this machine has an anti-condensation function. Even after the main power switch is in the stand-by position, the anti-condensation heater is active, thus keeping the machine body slightly warm.
- The machine has a Anti-humidity function. Even when the main power switch is in the Off position, the Anti-humidity heater is active if it is turned on.
- Do not move the machine while copying or printing.
- Be sure to take a note of your machine settings. If you operate the machine improperly or a failure occurs in the machine, your machine settings might be lost.
- Supplier shall not be liable for any loss or damages resulting form a failure on the machine, loss of machine settings, and use of the machine.

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Where To Put Your Machine

Machine Environment

Your machine's location should be carefully chosen because environmental conditions greatly affect its performance.

Optimum environmental conditions

⚠ ***CAUTION:***

- *Keep the equipment away from humidity and dust. Otherwise a fire or an electric shock might occur.*
- *Do not place the equipment on an unstable or tilted surface. If it topples over, it could cause injury.*

⚠ ***CAUTION:***

- *If you use the equipment in a confined space, make sure there is a continuous air turnover.*

- Temperature: 10 – 32°C (50 – 89.6°F)(humidity to be 54% at 32°C, 89.6°F)
- Humidity: 15 – 80% (temperature to be 27°C, 80.6°F at 80%)
- A strong and level base.
- The machine must be level within 5mm, 0.2" both front to rear and left to right.
- To avoid possible buildup of ozone, be sure to locate this machine in a large well ventilated room that has an air turnover of more than 30 m^3/hr/person.

Environments to avoid

- Locations exposed to direct sunlight or strong light (more than 1,500 lux).
- Locations directly exposed to cool air from an air conditioner or heated air from a heater. (Sudden temperature changes might cause condensation within the machine.)
- Locations close to such machines generating ammonia such as diazo copy machines.
- Places where the machine might be subjected to frequent strong vibration.
- Dusty areas.
- Areas with corrosive gases.

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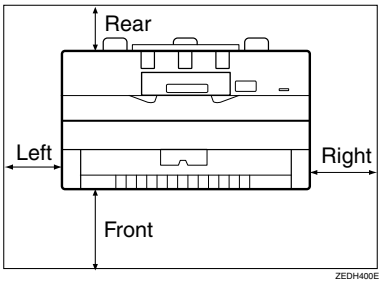
Access To Machine

Place the machine near the power source, providing clearance as shown.



	Standard setting
Front	more than 100cm (40")
Rear	more than 70cm (28")
Left	more than 40cm (16")
Right	more than 45cm (18")
Upper	more than 45cm (18")

Note

❒ For the required space when options are installed, please contact your service representative.

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Power Connection

⚠ ***WARNING:***

- ***Only connect the machine to the power source described on the inside front cover of this manual. Connect the power cord directly into a wall outlet and do not use an extension cord.***
- ***Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it. Do not pull it hard nor bend it more than necessary. These actions could cause an electric shock or fire.***

⚠ ***CAUTION:***

- *Unplug the power cord from the wall outlet before you move the equipment. While moving the equipment, you should take care that the power cord will not be damaged under the equipment.*

⚠ ***CAUTION:***

- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*

- When the main switch is in the Stand-by positions, the optional anti-condensation heaters are on. In case of emergency, unplug the machine's power cord.
- When you unplug the power cord, the anti-condensation heaters turn off.
- Make sure that the plug is firmly inserted in the outlet.
- Voltage must not fluctuate more than 10%.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.

Disposal

Contact your service representative if you want to dispose of the machine.

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Maintaining Your Machine

If the exposure glass or feed rollers are dirty, you will not be able to make clear copies. Clean them when they become dirty.

❖ **Cleaning the machine**

Wipe the machine with a soft dry cloth. If this does not remove the dirt, wipe the machine with a damp, tightly wrung, cloth. If a damp cloth still does not remove the dirt, try using a mild detergent. Wipe the machine with a dry cloth to remove the moisture, after using a damp cloth.

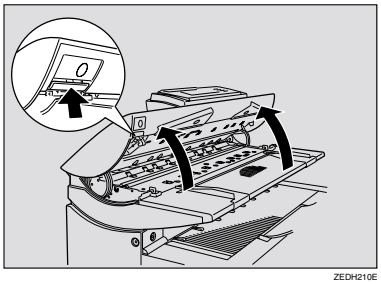
Important

- ❒ Do not use chemical cleaner or organic solvent, such as thinner or benzene. If they get into the machine or melt plastic parts, a failure might occur.
- ❒ Do not clean parts other than those specified in this manual. Such parts should be cleaned by your service representative.

Cleaning inside the Original Cover

If you open the original cover, you can access the exposure glass and original feed mechanism.

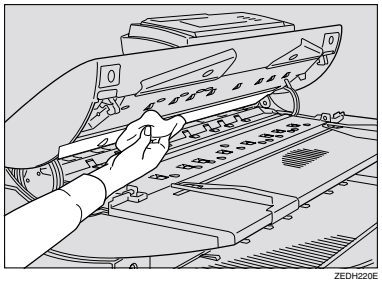
1 Lift the release lever on the original cover and open the cover while holding it on both sides.



ZEDH210E

Cleaning the exposure glass

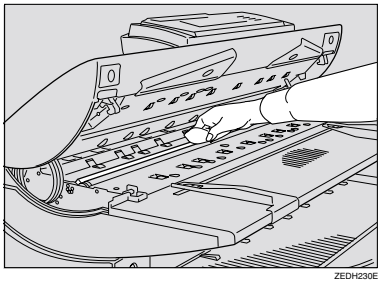
❶ Wipe the exposure glass with a soft, damp cloth.



ZEDH220E

Cleaning the feed roller

❶ Wipe the feed roller with a soft, dry cloth while turning the roller.



ZEDH230E

5

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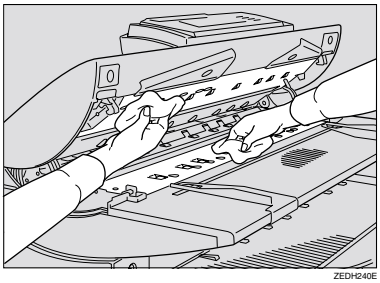
Cleaning the original feed guide

❶ **Wipe the original feed guides at the top and bottom with a soft, dry cloth.**

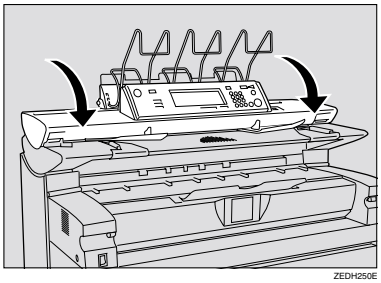


ZEDH240E

Note

❒ If there is paper dust or threads inside, remove them.

2 **Close the original cover gently.**

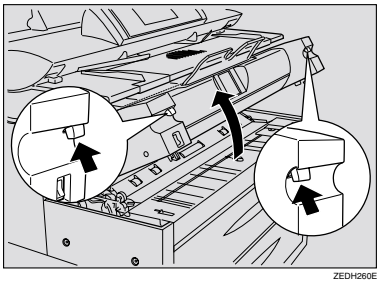


ZEDH250E

Cleaning The Paper Path Section

Cleans toner powder that may have collected on the imaging area.

1 **Lift the release levers on either side and open the paper path section.**

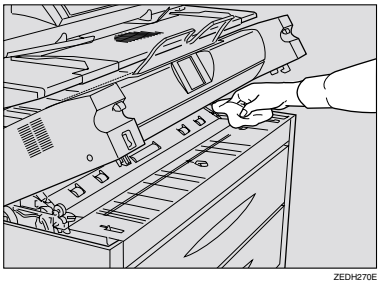


ZEDH260E

Important

❒ Do not leave the paper path section open for more than 10 minutes.

2 **Wipe it with a soft, dry cloth.**



ZEDH270E

3 **Close the paper path section cover gently.**

6. Specification

Mainframe

❖ **Configuration:**
Console

❖ **Fusing:**
Digital dry electrostatic transfer system

❖ **Originals:**
Sheet

❖ **Original size (W × L):**

- Metric version: 210 × 182mm-914 × 6000mm
- Inch version: $8^1/_2$" × 9"-36" × 236"

❖ **Copy size (W × L):**

- Metric version:
  A0 -A4
  Roll paper: 210 × 210mm-914 × 6000mm
  Bypass tray: 210 × 182mm-914 × 2000mm
- Inch version:
  E -A
  Roll paper: $8^1/_2$" × $8^1/_2$" -36" × 236"
  Bypass tray: $8^1/_2$" × 9"-36" × 78"

❖ **Reproduction ratio:**

- Metric version:
  Full-size: 100%
  Reduce: 25.0%, 35.4%, 50.0%, 70.7%
  Enlarge: 141.4%, 200.0%, 282.8%, 400.0%
  Zoom: 25.0-200.0% (0.1% step)
  Zoom: 200.0-400.0% (0.2% step)
- Inch version (Engineering):
  Full-size: 100%
  Reduce: 25.0%, 32.0%, 50.0%, 65.0%
  Enlarge: 129.0%, 200.0%, 259.0%, 400.0%
  Zoom: 25.0-200.0% (0.1% step)
  Zoom: 200.0-400.0% (0.2% step)
- Inch version (Architecture):
  Full-size: 100%
  Reduce: 25.0%, 33.0%, 50.0%, 67.0%
  Enlarge: 133.0%, 200.0%, 267.0%, 400.0%
  Zoom: 25.0-200.0% (0.1% step)
  Zoom: 200.0-400.0% (0.2% step)

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❖ **Copying speed (full-size copying):**
7 copies/minute (A1(D)□) (3.54 inch per second)

❖ **Warm-up time:**
Less than 2 minutes (20°C)

❖ **First copy time:**

- Metric version:
  When selected upper tray: 18 seconds (A1□), 25 seconds(A0□)
- Inch version:
  When selected upper tray: 18.5 seconds (D□), 25.4 seconds(E□)

❖ **Repeat copy:**

- Metric version:
  - Mainframe only

Width	Length
914/880mm	Up to 1,219mm
841mm	Up to 1,325mm
594mm	Up to 1,875mm
420mm	Up to 2,652mm (Transportation distance:2,000mm)
297mm	Up to 2,751mm (Transportation distance:2,000mm)
When deleting a copy size: Up to 1,219mm	

  - Optional HDD installed
    6 m (any width)
- Inch version (Engineering):
  - Mainframe only

Width	Length
34"	Up to 50.8"
22"	Up to 78.5"
17"	Up to 101.6"
11"	Up to 157"
$8^1/_2$"	Up to 203.2"
When deleting a copy size: Up to 50.8"	

  - Optional HDD installed
    236" (any width)

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- Inch version (Architecture):
  - Mainframe only

Width	Length
36" (30")	Up to 48"
24"	Up to 72"
18"	Up to 96"
12"	Up to 144"
9"	Up to 192"
When deleting a copy size: Up to 48"	

  - Optional HDD installed
    236" (any width)

❖ **Non-reproduction area:**

- Metric version:
  - Top: 8mm
  - Bottom: 10mm
  - Left and Right 2 ± 2mm (less than 6mm on either side)
- Inch version:
  - Top: 0.32"
  - Bottom: 0.39"
  - Left and Right 0.08" ± 0.08" (less than 0.24" on either side)

❖ **Continuous copying count:**
99 copies

❖ **Copy paper capacity:**
2 roll unit/bypass tray

❖ **Power source:**

- Metric version
  220-240V, 50Hz/60Hz, 10A
- Inch version
  120V, 60Hz, 20A

❖ **Dimensions (W × D × H):**
1,250 × 748 × 1,200mm, 49.2" × 29.4" × 47.2"

❖ **Weight:**
Approx. 225kg, 496lb

❖ **Original scanning:**
Original feed image scanning over a fixed contact image sensor

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❖ **Original scanning pivot:**
Center

❖ **Light source:**
LED

❖ **Scanning resolution:**
600dpi

❖ **Scanning gradation:**
256 values

❖ **Printing gradation:**
4 values

❖ **Printing resolution:**
600dpi

❖ **Photo conductor type:**
OPC

❖ **Development:**
Dry two-component magnetic brush development system

❖ **Fusing:**
Hot roller

❖ **Power consumption:**

	Metric version	Inch version
Warm-up	1.6 kw	1.7 kw
Ready (Anti-humidity heater = OFF)	0.2 kw	0.2 kw
During printing	1.5 kwh	1.4 kwh
Maximum	1.8 kw	1.7 kw

❖ **Noise Emission [*1] :**
Sound Power Level:

Stand-by	Less than 50.6 dB (A)
Copying	Less than 65.7 dB (A)

Sound Pressure Level [*2] :

Stand-by	Less than 38.0 dB (A)
Copying	Less than 54.7 dB (A)

[*1] The above measurements are made in accordance with ISO 7779 which are the actual value.
[*2] It is measured at the position of the operator.

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Options

❖ **2nd Roll Tray TypeA**
Adds the lower tray (paper roll 3).

❖ **Roll Holder Unit TypeA**
When using different sizes of roll paper, use the roll holder to quickly change the paper rolls.

❖ **Original Tray TypeG**
Attach this to the rear of the machine to store large quantities of originals.

❖ **Stamp Board TypeA**
Adds the print capability required for the Background Numbering, Preset Stamp, User Stamp, Date Stamp, User Stamp Repeat, and Page Numbering functions.

❖ **Hard Disk Drive Option Type 470**
Allows you to incrase the copy functions, like the following:
- Repoat Copy (longer than A0(E)D)
- Stamp function (required stamp board)
- Sort/Rotate Sort (50 sheets or more)
- Restart Copy (longer than A0(E))
- Format Overlay
- Sample Copy (longer than A0(E))

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Settings Record Sheet

❖ Program Record Sheet

Program No.	Original name	Function 1	Function 2	Function 3	Function 4	Function 5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Please make a copy of this sheet and use it to keep a record of your program settings.

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❖ Stored Format Record Sheet

Format No.	Original name	Note	Date	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Please make a copy of this sheet and use it to keep a record of your format settings.

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❖ User Stamp Record Sheet

Record No.	Corporation/section/project...etc	Stamp image	Date	
1				
2				
3				
4				

Please make a copy of this sheet and use it to keep a record of your user stamps.

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Magnification Ratio Chart

❖ Metric version (A series)

		Copy size				
	%	A0	A1	A2	A3	A4
Original size	A0	100.0	70.7	50.0	35.4	25.0
	A1	141.4	100.0	70.7	50.0	35.4
	A2	200.0	141.4	100.0	70.7	50.0
	A3	282.8	200.0	141.4	100.0	70.7
	A4	400.0	282.8	200.0	141.4	100.0

❖ Inch version (Engineering)

		Copy size				
	%	E	D	C	B	A
Original size	E	100.0	65.7	50.0	32.0	25.0
	D	129.0	100.0	65.0	50.0	32.0
	C	200.0	129.0	100.0	65.0	50.0
	B	259.0	200.0	129.0	100.0	65.0
	A	400.0	259.0	200.0	129.0	100.0

❖ Inch version (Architecture)

		Copy size				
	%	E	D	C	B	A
Original size	E	100.0	67.0	50.0	33.0	25.0
	D	133.0	100.0	67.0	50.0	33.0
	C	200.0	133.0	100.0	67.0	50.0
	B	267.0	200.0	133.0	100.0	67.0
	A	400.0	267.0	200.0	133.0	100.0

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Measure Chart

❖ Metric version (A series)

	Width × Length
A0	841 × 1,189 mm
A1	594 × 841 mm
A2	420 × 594 mm
A3	297 × 420 mm
A4	210 × 297 mm

❖ Inch version (Engineering)

	Width × Length
E	34" × 44"
D	22" × 34"
C	17" × 22"
B	11" × 17"
A	$8^1/_2$" × 11"

❖ Inch version (Architecture)

	Width × Length
E	36" × 48"
D	24" × 36"
C	18" × 24"
B	12" × 18"
A	9" × 12"

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